

## STIC Search Report Biotech-Chem Library

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TO: Jegatheesan Seharaseyon

Location: REM-4C61&4C70

Art Unit: 1647

Scallon Notes

Thursday, June 16, 2005

Case Serial Number: 09/920137

From: Alex Waclawiw

**Location: Biotech-Chem Library** 

CM1-6A02

Phone: 308-4491

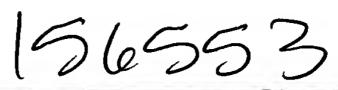
Alexandra.waclawiw@uspto.gov

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## STIC-Biotech/ChemLib



From:

Chan, Christina

Sant: To:

Subject:

Wednesday, June 15, 2005 2:29 PM Seharaseyon, Jegatheesan; STIC-Biotech/ChemLib RE: RE: Rush search

Please rush. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644 (571)-272-0841 Remsen, 3E89

----Original Message-----

From:

Seharaseyon, Jegatheesan

Sent:

Wednesday, June 15, 2005 9:25 AM

To:

Chan, Christina RE: Rush search

Subject: Importance: High

Hi,

Please rush search SEQ ID NO: 7 and 8 of 09/920137 in pending and commercial databases.

Thanks in advance, Seyon.

J.Seharaseyon Art Unit 1647 Remsen 4C61 Mailbox 4C70

Phone: (571)-272-0892 Fax: (571)-273-0892

*****	******Point of Contact:
STAFF USE ONLY	Alexandra Wacławiw Technical Info. Specialist
Searcher:	CM1 6A02 Tel: 308-4491
Searcher Phone: 2-	
Date Searcher Picked	d up: <u></u>
Date Completed:	20-01-2
Searcher Prep/Rev.	
Online Time:	
	1 (2)

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MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Rahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.

Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.

Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.
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Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; I Mammalia; Eutheria; Primates; Catarrhini; Hominidae; NCBI_TaxID=9606;
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EMBL; AF035021; AAD56257.1; -.

PIR; PH1644; PH1644.

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HSSP; P01772; 2FB4.

InterPro; IPR007110; Ig-like.

InterPro; IPR003596; Ig_v.

SMART; SM00406; IGv; 1.

PROSITE; PS50835; IG_LIKE; 1.
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Pred. No. 8.9e-45,
3; Mismatches
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Young D.C.,
"Myosin-reactive autoantibodies in rheumatic
fetus.";
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"Complement recruitment using bispecific di
Nat. Biotechnol. 15:629-631(1997).
EMBL; Y13056; CAA73499.1; -.
InterPro; IPR003599; Ig.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
Pfam; PF00047; ig; 2.
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116
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Myosin-reactive immunoglobulin heavy
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STRAIN=Clq/7;
MEDLINE=97362799; PubMed=9219263;
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12434 MW;
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25-OCT-2004 (TrEMBLrel. 28, C
25-OCT-2004 (TrEMBLrel. 28, L
25-OCT-2004 (TrEMBLrel. 28, L
Single-chain Fv (Fragment).
Name=scFv;
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Similarity 89.2%;
99; Conservative
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PRELIMINARY
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116
116 AA;
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3GBBKYY
                                                                                                                     QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
                                                                                                             QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
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                                                                                          Gaps
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                                                                                                                                                                                                                                                                                                                                             Lehman D.W., Putnam F.W.;

Lehman D.W., Putnam F.W.;

Lehman D.W., Putnam F.W.;

"Amino acid sequence of the variable region of a human mu chain:
location of a possible JH segment.";

Proc. Natl. Acad. Sci. U.S.A. 77:3239-3243(1980).

-!- MISCELLANEOUS: This mu chain was isolated from the plasma of patient with macroglobulinemia.

-!- SIMILARITY: Contains 1 immunoglobulin-like domain.

PIR; A02051; M3HUAM.

RSP; P01772; ZFB4.

GO; GO:0005576; C:extracellular; NAS.

GO; GO:0005576; C:extracellular; NAS.

GO; GO:0006955; P:immune response; NAS.

InterPro; IPR007110; Ig-like.

InterPro; IPR003596; Ig_v.
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21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Ig heavy chain V-III region CAM.
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostom Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Pyrrolidone carboxylic acid
                                                                                          Indels
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                                                    CRC64;
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                                                                     Score 507.5; DB 2
Pred. No. 3.8e-44;
; Mismatches 3
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                                                    FDCFD3645F64B373
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SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
Direct protein sequencing; Immunoglobulin V
Pyrrolidone carboxylic acid.
DOMAIN 1112 Ig-like.
                                                                                                                                                                                                                      122 AA
                                                                                                                                                                                                                     PRT;
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                                        240
25569 MW;
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80.9%;
                                                                     83.5%;
ilarity 83.2%;
Conservative
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SMART; SM00409; IG; 2.
SMART; SM00406; IGv; 2.
PROSITE; PS50835; IG_LIKE;
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93; Conserv
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122 AA;
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240 AA;
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                                                  SEQUENCE
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HUMAN
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Lichtenstein A.K., Berenson J.R.;
Lichtenstein A.K., Berenson J.R.;
"A CD10-positive subset of malignant cells is identified in multiple myeloma using PCR with patient-specific immunoglobulin gene primers Leukemia 9:1948-1953(1995).

EMBL; S80860; AAD14339.1; -.
HSSP; P01842; 1AQK.
GO; GO:0005887; C:integral to plasma membrane; NAS.
GO; GO:0016066; P:cellular defense response (sensu Vertebrata); NAS InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
SMART; SM00406; IGv; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       112
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                                                                                                     Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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Catarrhini, Hominidae, Homo.
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                                                                                                                                                                             SEQUENCE FROM N.A.
MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531
Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 113
                                          01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Myosin-reactive immunoglobulin heavy chain variable region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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Last annotation update
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                                                                                                                                                                                                                                                        fetus.";
Clin. Immunol. Immunopathol. 87:184-192(1998).
EMBL; AF035024; AAD56260.1; -.
PIR; S78486; S78486.
HSSP; P01772; 2FB4.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 493; DB 2;
Pred. No. 4.9e-43
}; Mismatches
                                                                                                                                                                                                              Wu X., Liu B., Van der Merwe P.L., Kalis N.N.
Young D.C.,
"Myosin-reactive autoantibodies in rheumatic
113
                             Created)
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MEDLINE=96071149; PubMed=7475288;
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                12437 MW;
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26,
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25,
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(TrEMBLrel. 1
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(Fragment).
PRELIMINARY;
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113 AA;
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            09UL90;
01-MAY-2000
01-MAY-2000
01-MAR-2004
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01-NOV-1999
01-OCT-2003
VH3 protein
                                                                                    (Fragment)
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SMART; SM
PROSITE;
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                                                                                              Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostom.
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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                                    Length
            8489FCAAA7BC925C CRC64;
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                                                                                                                                                                                                                                                                                                                                                                     TISSUE=Human rectum tumor;
The German Human cDNA Consortium;
Wambutt R., Heubner D., Mewes H.W., Weil B., Amid C.,
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Last sequence update)
Last annotation update)
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05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein DKFZp686P15220.
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17;
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Pred. No. 2.1e-40;
11; Mismatches 11;
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                                  Score 475; DB 2;
Pred. No. 4.8e-41
; Mismatches 1
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UNKNOWN 2
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Submitted (AUG-2003) to the EMBE, BX640627; CAE45781.1; -.
HSSP; P01861; 1ADQ.
InterPro; IPR003599; Ig.
InterPro; IPR003597; Ig.-1ike.
InterPro; IPR003597; Ig.-1i.
InterPro; IPR003596; Ig.-V.
Pfam; PF07654; C1-set; 3.
SMART; SM00409; IG; 2.
SMART; SM00406; IGV; 1.
PROSITE; PS50835; IG LIKE; 4.
PROSITE; PS50835; IG LIKE; 4.
PROSITE; PS50835; IG LIKE; 4.
PROSITE; PS50836; IG LIKE; 4.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 51724 MW;
           15768 MW;
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                                  78.1%;
ilarity 78.9%;
Conservative
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Similarity 78.3%;
90; Conservative
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147
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            147 AA;
                                              Similarity
90; Conser
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Q6P181;
05-JUL-2004
05-JUL-2004
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Matches 90
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Q6N089
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115
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Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
         Euteleostomi;
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                                                                                                                                                                                                                                                                                                                                                                                                                  478;
         Craniata; Vertebrata; Eutele
Catarrhini; Hominidae; Homo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                      cDNA sequences.";
L. Acad. Sci. U.S.A. 99:16899-16903(2002)
                                                                                                                                                                                                                                                                                                                                                                                                                 DB 2;
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Primates;
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SMART; SM00409; IG; 2.

SMART; SM00407; IGc1; 3.

SMART; SM00406; IGv; 1.

PROSITE; PS50835; IG_LIKE; 4

PROSITE; PS00290; IG_MHC; UN

Hypothetical protein.

SEQUENCE 478 AA; 52666 MW
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19,
26,
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Q96BB9;
01-DEC-2001 (TrEMBLrel. 1
01-DEC-2001 (TrEMBLrel. 1
01-MAR-2004 (TrEMBLrel. 2
                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
TISSUE=Primary B-Cells;
Homo sapiens (Human).
Eukaryota; Metazoa; C
Mammalia; Eutheria; P
NCBI_TaxID=9606;
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92; Conserv
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Best Local S
Matches 92
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S.J.,
S.H.,
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                       P SEQUENCE FROM N.A.

X TISSUE=Primary B-Cells;

X MEDLINE=22388257; Pubmed=12477932; DOI=10.1073/pnas.242603899;

A Klausner R.D., Collins F.S., Wagner L.H., Derge J.G.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsheh F.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

B Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.

B Bosak S.A., McEwan P.J., McKernan K.J., Abramson R.D., Mullahy S.J.

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.

Villalon D.K., Mazny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Rahesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.

Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,

A Jones S.J., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length hu
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Catarrhini; Hominidae; Homo.
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Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases
EMBL; BC015760; AAH15760.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                CRC64;
                                                                                                                                                                                                                                                 mouse cDNA sequences.";
... Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
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4FCA3AD8ECE263D9
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MEDLINE=79124695; PubMed=420800;
Chiu Y.-Y.H., Lopez de Castro J.A., Poljak R.J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8e-40;
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21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Ig heavy chain V-III region HIL.
Homo sapiens (Human)
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Pfam; PF07654; C1-set; 4.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 5.
PROSITE; PS00290; IG MHC; UNKNOR
                                                                                                                                                                                                                                                                                                                         EMBL; BC015760; nc...

PIR; S05271; S05271.

PIR; S24260; S24260.

HSSP; P01861; 1ADQ.

InterPro; IPR007110; Ig-like.

InterPro; IPR003597; Ig c1.

InterPro; IPR003596; Ig MHC.

ThterPro; IPR003596; Ig v.
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Mammalia; Eutheria; Primates;
NCBI_TaxID=9606;
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 NCBI TaxID=9606;
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   region of human myeloma
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                          carboxylic
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                                                                                                                                                                                                                 Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
Direct protein sequencing; Immunoglobulin V region;
Pyrrolidone carboxylic acid.
DOMAIN 1 112 Ig-like.
                                                       an
                                                               protein.

-!- SIMILARITY: Contains 1 immunoglobulin-like dor
PIR; A02054; G1HUHL.

HSSP; P01772; 2FB4.

GO; GO:0005576; C:extracellular; NAS.

GO; GO:0003823; F:antigen binding; NAS.

GO; GO:0006955; P:immune response; NAS.

InterPro; IPR007110; Ig-like.

InterPro; IPR003596; Ig_v.
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Pred. No. 1.6e-40;
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Pred. No. 1.8e-40;
7; Mismatches 13;
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EMBL; AF035030; AAD56266.1; -.
HSSP; P01772; 2FB4.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
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Young D.C.;
"Myosin-reactive autoantibodies in rheumatic
                                                   isolated
                                                                                                                                                                                                                                                                                                       Ig-like.
Pyrrolidone
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13579 MW;
                                                  -!- MISCELLANEOUS: This chain
"Amino acid sequence of the V cryoimmunoglobulin IgG Hil."; Biochemistry 18:553-560(1979)
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ilarity 81.4%;
Conservative
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76.5%;
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01-MAY-2000
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FROM N.A
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MISSUE=Primary B.Cells,

MISSUE=Primary B.Cells,

Altausherg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

Klausher R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A biatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
 1 EVQLVESGGGVVQPGRSLRLSCAASRFTFSNYGMHWVRQAPGKGLEWVAAISNDGSNKFY
                                                                                                                                                                                                                                                                                                                                             S.J.,
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S.W.,
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                      Length 573;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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                                                                                                                                       Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
[2]
                                                                                                                                       update)
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76.9%; Pred. No. 3.2e-39;
ive 11; Mismatches 10;
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Strausberg R.;
Submitted (JAN-2002) to the EMBL/GenBa EMBL; BC021276; AAH21276.1; -.
PIR; S21205; S21205.
PIR; S30532; S30532.
HSSP; P18529; 118K.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 4.
PROSITE; PS00290; IG MHC; UNKNOWN_2.
                                                                                                                              Created)
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26,
                                                                                                            ol-MAR-2002 (TrEMBLrel. 2 01-MAR-2004 (TrEMBLrel. 2 Hypothetical protein. Homo sapiens (Humanyora
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                                                                                                      PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Jones S.J., Marra M.A.; "Generation and initial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
TISSUE=Primary B-Cells;
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SEQUENCE 573 AA;
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                                                                                                                                                                                                                                  FROM N.A
                                                                                                                                                                                                            TaxID=9606;
                                                                                                     Q8WU38;
Q8WU38;
Q1-MAR-2002
Q1-MAR-2002
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TISSUE=Primary B-Cells;

REDUENCE FROM N.A.

TISSUE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,

Altschul S.F., Jordan H., More T., Max S.I., Wang J., Hong L.,

Altschul S.F., Jordan H., More T., Mark S.I., Wang J., Hong L.,

Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Rosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Rahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Anhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

Jones S.J., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length human
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                                                                                                                                                                                              Euteleostomi
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                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
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Strausberg R.;
Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
EMBL; BC073758; AAH73758.1; -.
InterPro; IPR003599; Ig.
InterPro; IPR003110; Ig-like.
InterPro; IPR003597; Ig.cl.
InterPro; IPR003006; Ig.MHC.
InterPro; IPR003596; Ig.V.
InterPro; IPR003596; Ig.V.
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                                                                                  Last sequence update)
Last annotation update)
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U.S.A. 99:16899-16903(2002)
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Pred. No. 3.4e-39;
7; Mismatches 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF07654; C1-set; 4.
Pfam; PF00047; ig; 4.
SMART; SM00409; IG; 2.
SMART; SM00407; IGc1; 4.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 5.
PROSITE; PS00290; IG_MHC; UNKNOWN_3.
                                                          Created)
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ilarity 75.6%;
Conservative
                                                        27,
27,
27,
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Proc. Natl. Acad. Sci. U.: [2]
PRELIMINARY;
                                                     (TrEMBLrel.
                                                                                (TrEMBLrel.
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TISSUE=Primary B-Cells;
                                                                                                                                     Hypothetical protein.
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SEQUENCE 606 AA;
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PIR; A
HSSP;
GO; GO
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Q6PJ95
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                                                                                                                                   MEDLINE=74175307; PubMed=4208843;
Florent G., Lehman D., Putnam F.W.;
"The switch point in mu heavy chains of human IgM immunoglobuli
Biochemistry 13:2482-2498(1974).
-!- MISCELLANEOUS: This chain was isolated from a Waldenstrom's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=77070269; PubMed=826475;
Ponstingl H., Hilschmann N.;
"The rule of antibody structure. The primary structure of a mon IgG1 immunoglobulin (myeloma protein Nie). III. The chymotrypti peptides of the H-chain, alignment of the tryptic peptides and discussion of the complete structure.";
Hoppe-Seyler's Z. Physiol. Chem. 357:1571-1604(1976).
                                                                                        Craniata; Vertebrata; Euteleostom
Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                 OVOLVESGGGVVOPGRSLRLSCAASGFTFSSYAMHWVROAPGKGLEWVAVISYD
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Catarrhini; Hominidae; Homo
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                                                                                                                                                                                                                                                                                                                         carboxylic
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10;
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Pred. No. 2.5e-39,
9; Mismatches 10
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on update)
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Direct protein sequencing; Immunoglobulin V
Pyrrolidone carboxylic acid.
                                                   Last sequence update)
Last annotation update
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                                                                                                                                                                                                                                                                                                                        Pyrrolidone
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21-JUL-1986 (Rel. 01, Last sequence upda 05-JUL-2004 (Rel. 44, Last annotation up Ig heavy chain V-III region NIE. Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Mammalia; Eutheria; Primates; Catarrhini NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                Ig-like
                        PRT;
                                                                                                                                                                                                                                                                                                                                                                              19;
                                                                         Homo sapiens (Human).

Eukaryota; Metazoa; Chordata;

Mammalia; Eutheria; Primates;

NCBI_TaxID=9606;
                                           Created)
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(Rel. 44, Last an
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SM00406; IGv; 1
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-!- SIMILARITY: Con'
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nes 83; Conser
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21-JUL-1986
05-JUL-2004
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P01770;
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                                P01769;
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               HV3H_HUMAN
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TISSUE=Primary B-Cells;

X MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

A Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

B Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Rahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
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S.W.,
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MEDLINE=77070267; PubMed=1002129; Dreker L., Schwarz J., Reichel W., Hilschmann N.; Dreker L., Schwarz J., Reichel W., Hilschmann N.; Dreker L., Schwarz J., Reichel W., Hilschmann N.; Rule of antibody structure. The primary structure of a monoclonal 1gG1 immunoglobulin (myeloma protein Nie), I: purification and characterization of the protein, the L- and H-chains, the cyanogen bromide cleavage products, and the disulfide bridges."; Hoppe-Seyler's Z. Physiol. Chem. 357:1515-1540(1976).
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Catarrhini; Hominidae; Homo.
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Pyrrolidone carboxylic
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Last annotation update)
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3.4e-39;
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HSSP; P01772; 2FB4.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0006955; P:immune response; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig.v.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
Direct protein sequencing; Immunoglobulin V response.
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Pred. No.
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
NCBI_TaxID=9606;
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85.0%;
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RX MEDLINE=81072295; PubMed=7441755;
RA Marquart M., Deisenhofer J., Huber R., Palm W.;
RT "Crystallographic refinement and atomic models of the intact immunoglobulin molecule Kol and its antigen-binding fragment at and 1.0-A resolution.";
L J. Mol. Biol. 141:369-391(1980).

C -i-SIMILARITY: Contains 1 immunoclar.

PIR; A02055; G1HUKL.
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MEDLINE=83289131; PubMed=6884994;
Schmidt W.E., Jung H.-D., Palm W., Hilschmann N.;
"Three-dimensional structure determination of antibodies. Primastructure of crystallized monoclonal immunoglobulin IgG1 KOL, I Hoppe-Seyler's Z. Physiol. Chem. 364:713-747(1983).
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Myers R.M., Butterfiel., Schnerch A., Schnein
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Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
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larity 87.0%; Pred. No. 2.5e-38,
Conservative 4; Mismatches
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Last annotation update)
 Skimwood J., Schmutz J., M)
Skalska U., Smailus D.E.,
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Catarrhini;
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                                                      of
                                                                                                                                                                                                                                                                                                                                                                PROSITE; PS50835; IG LIKE; 4.
PROSITE; PS00290; IG MHC; UNKNOWN Hypothetical protein.
SEQUENCE 544 AA; 60102 MW.
                                                      analysis
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21-JUL-1986 (Rel. 01, Last seq
25-OCT-2004 (Rel. 45, Last ann
Ig heavy chain V-III region KO
Homo sapiens (Human).
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InterPro; IPR007110; Ig-like.
InterPro; IPR003597; Ig cl.
InterPro; IPR003006; Ig MHC.
InterPro; IPR003596; Ig v.
Pfam; PF07654; Cl-set; 3.
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Mammalia; Eutheria; Primates;
NCBI_TaxID=9606;
                                                                                                                                                           Strausberg R.;
Submitted (DEC-2001) to the
EMBL; BC019046; AAH19046.1
HSSP; P01861; 1ADQ.
Rodriguez A.C., Grimwood Krzywinski M.I., Skalska Jones S.J., Marra M.A.; "Generation and initial a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STANDARD;
                                                                                                                           SEQUENCE FROM N.A.
TISSUE=Primary B-Cells;
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87; Conserv
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P01772;
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TISSUE=Primary B-Cells;
MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler
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No. 1.3e-38;
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  response; NAS
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Pred.
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GO; GO:0006955; P:immune respondence of InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig-v.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG-LIKE; 1.
3D-structure; Direct protein sepondidone carboxylic acid.
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13718 MW;
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Eutheria; Primates;
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ilarity 74.6%;
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05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
Hypothetical protein.
Homo sapiens (Human).
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21-JUL-1986
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P01764;
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Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.
Kzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
Jones S.J., Marra M.A.;
"Generation and initial analysis of more than 15,000 full-length huma
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MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531
Win X.. Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
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01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Myosin-reactive immunoglobulin heavy chain variable region
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Strausberg R.;
Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; BC018747; AAH18747.1; -.
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HSSP; P01861; 1ADQ.
InterPro; IPR003599; Ig.
InterPro; IPR007110; Ig-like.
InterPro; IPR003597; Ig_c1.
InterPro; IPR003006; Ig_MHC.
InterPro; IPR003596; Ig_v.
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ilarity 79.8%;
Conservative
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SMART; SM00407; IGc1; 3.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 4
PROSITE; PS00290; IG MHC; UN
Hypothetical protein.
SEQUENCE 470 AA; 51715 MW
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nes 87; Conser
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                                                                                                                                                                                                                                                                  Gaps
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"Structure and multiplicity of genes for the human immunoglobulin heavy chain variable region.";
Proc. Natl. Acad. Sci. U.S.A. 77:6561-6565(1980).
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                                                                                                                                                                                          Length 121;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutel
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
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                                                                                                                                                                                         Score 448; DB 2;
Pred. No. 2.3e-38;
Mismatches
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21-JUL-1986 (Rel. 01, Last sequence update)
25-OCT-2004 (Rel. 45, Last annotation update)
29 heavy chain V-III region VH26 precursor.
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EMBL; M35415; AAA58735.1; -.
PIR; A02047; H3HU26.
PDB; 1HOU; Model; H=20-117.
Genew; HGNC:5545; IGHV@.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0005823; F:antigen binding; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
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EMBL; AF035043; AAD56279.1; -. HSSP; P01852; 1NFD.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
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84.0%;
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121 AA;
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117 AA;
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84; Conserv
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al protein.
                 Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9606;
                                                                                      SEQUENCE FROM N.A.
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Best Local
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                                                                  QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Human esophagus tumor;
The German Human cDNA Consortium;
Wambutt R., Heubner D., Mewes H.W., Weil B., Amid C., Osanger Fobo G., Han M., Wiemann S.;
Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; BX640624; CAE45778.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 519;
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05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein DKFZp686K18196 (Fragment).
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05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein DKFZp636C15213.
Name=DKFZp686C15213;
Homo sapiens (Human).
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1.4e-36;
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Mismatches
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Pred. No.
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InterPro; IPR003599; Ig.
InterPro; IPR003597; Ig.
InterPro; IPR003597; Ig.c1.
InterPro; IPR003597; Ig.MHC.
InterPro; IPR003596; Ig.W.
Pfam; PF07654; C1-set; Z.
Pfam; PF00047; ig; 1.
SMART; SM00409; IG; 4.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 4.
PROSITE; PS00290; IG_MHC; UNKNOWN_1
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TISSUE=Mammary gland;
Isogai T., Ota T., Nishikawa T., Hayashi K., Otsuki T., Sugiyama Suzuki Y., Ota T., Nishikawa T., Ishii S., Kawai-Hio Y., Saito K., Yamamoto J., Wakamatsu A., Nakamura Y., Kojima S., Nagahari K., Masuho Y., Ono T., Okano K., Yoshikawa Y., Aotsuka S., Sasaki N., Hattori A., Okumura K., Iwayanagi T., Ninomiya K.; Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.

EMBL; AK074651; BAC11114.1; -.
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  Craniata; Vertebrata; Euteleostomi;
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                   Catarrhini; Hominidae; Homo
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
NCBI TaxID=9606;
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01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Hypothetical protein FLJ90170.
Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 436.5; DB 2;
Pred. No. 1.7e-36;
13; Mismatches 7;
                                                                                         TISSUE=Human rectum tumor;
The German Human cDNA Consortium;
Bloecker H., Boecher M., Mewes H.W., Weil B., Am:
Fobo G., Han M., Wiemann S.;
Submitted (AUG-2003) to the EMBL/GenBank/DDBJ date EMBL; BX640874; CAE45931.1; -.
HSSP; P01861; 1ADQ.
InterPro; IPR003599; Ig.
InterPro; IPR003109; Ig.
InterPro; IPR003597; Ig.
InterPro; IPR003596; Ig.
InterPro; IPR003596; Ig.
SMART; SM00409; IG; 2.
SMART; SM00400; IGLIKE; 4.
PROSITE; PS50835; IGLIKE; 4.
PROSITE; PS00290; IGMHC; UNKNOWN_2.
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MW; 12ECD7E094777101
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InterPro; IPR003597; Ig_c1.
InterPro; IPR003596; Ig_MHC.
InterPro; IPR003596; Ig_v.
Pfam; PF07654; C1-set; Z.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 4.
PROSITE; PS00290; IG_MHC; UNKNOSEQUENCE 493 AA; 53224 MW;
Chordata;
Primates;
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Similarity 74.8%;
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Search completed: June 16, 2005, Job time: 118.516 secs
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Matches 84
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T., Rajewsky K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                            12
                                                                              31
                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostom
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                20 QVQLVESGGGVVLPGGSLRLSCAASGFRFRDYDMHWVRQSPGEGLEWVALIWYD
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Bothwell A.L.M., Paskind M., Reth M., Imanishi-Kari T., Rajewsk
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                           QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYD
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           o;
                                                            Baltimore D.;
"Heavy chain variable region contribution to the NPb family antibodies: somatic mutation evident in a gamma 2a variable Cell 24:625-637(1981).
                                                                                                                                                                                                                                                                                                                                               Length 95;
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           Indels
                                                                                                                                                                                                                                 Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.

EMBL; AB035268; BAA87067.1; -.

PIR; PH0872; PH0872.

PIR; S36280; S36280.

HSSP; P01820; 1G7J.

InterPro; IPR007110; Ig-like.

InterPro; IPR003596; Ig_v.

SMART; SM00406; IGv; 1.

PROSITE; PS50835; IG_LIKE; 1.
                                                                                                                                                                                                                                                                                                                               90A8C6D16D22574A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
25-OCT-2004 (Rel. 45, Last annotation update)
19 heavy chain V region MOPC 21 precursor (Fragment)
                                                                                                                                      01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Imunoglobulin heavy chain (Fragment).
Homo sapiens (Human).
2.1e-36;
ches 18;
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Pred. No. 1.3e-36;
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  d. No. 2.10
Mismatches
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illarity 87.4%;
Conservative
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larity 73.2%;
Conservative 1
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Tange Y., Kayano H.;
Submitted (NOV-1999)
l Similarity
82; Conserv
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les 83; Conser
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P01783;
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SEQUENCE
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HV16_MOUSE
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                          Pfam; PF00047; ig; 1. --
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
3D-structure; Direct protein sequencing; Immunoglobulin V region;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDRGISAGGNYYYYGMD
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                                       mutants."
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DN -> ND (in Ref. 2).
W -> H (in Ref. 2).
Y -> W (in Ref. 2).
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Pred. No. 2.4e-36;
8; Mismatches 15;
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MEDLINE=77100368; PubMed=401950;
Adetugbo K., Milstein C., Secher D.S.;
"Molecular analysis of spontaneous somatic
Nature 265:299-304(1977).
                                                                                                                                                                                                                                                                                                                   D segment.
JH4 segment.
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07:38:55

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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                   Copyright
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- protein search, using sw model OM protein

07:35:01 2005, June 16, Run on:

; Search time 24.2377 Second
 (without alignments)
456.518 Million cell upda

score: Title: Perfect

US-09-920-137D-7 608 1 QVQLVESGGGVVQPGRSLRL.....CARDRGISAGGNYYYYGMDV Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 seqs, 96216763 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 100 summaries

PIR 79: \*
1: pir1: \*
2: pir2: \*
3: pir3: \*
4: pir4: \* Database

Pred. No. is the number of results predicted by chance to have score greater than or equal to the score of the result being pand is derived by analysis of the total score distribution.

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l Similarity 90.4%;
103; Conservative
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C;Species: Homo sapiens (man)
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C;Species: Homo sapiens (man)
C;Date: 13-Jan-1995 #sequence_revision 13-Sep-1998 #text_change 23-Jul-1999
C;Accession: 848797; S26883
R;Mahmoudi, M.; Edwards, J.; Cairns, E.; Bell, D.
Submitted to the EMBL Data Library, October 1994
A;Description: Molecular characterization of natural human anti-Sm autoanti
A;Reference number: 848797
A;Molecule type: mRNA
A;Residues: 1-128 «MAH>
A;Residues: 1-128 «MAH>
A;Coss-references: EMBL:246379; NID:9587147; PIDN:CAA86512.1; PID:91340168
K;Tomlinson, I.M.; Walter, G.; Marks, J.D.; Llewelyn, M.B.; Winter, G.
J. Moll. Biol. 227, 776-798, 1992
A;Title: The repertoire of human germline V(H) sequences reveals about fift
A;Reference number: S26885; MUID:93021117; PMID:1404388
A;Accession: S26893
A;Accession: S26893
A;Cross-references: EMBL:Z12350; NID:932922; PIDN:CAA78220.1; PID:932923
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;15-98/Domain: immunoglobulin homology 
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Igheavy chain V region (M72) - human
C;Species: Homo sapiens (man)
C;Date: 21-Dec-1990 #sequence_revision 21-Dec-1990 #text_change 16-Dec-C;Accession: E36005
C;Accession: E36005
R;Schroeder Jr., H.W.; Wang, J.Y.
Proc. Natl. Acad. Sci. U.S.A. 87, 6146-6150, 1990
A;Title: Preferential utilization of conserved immunoglobulin heavy cha A;Reference number: A36005; MUID:90349571; PMID:2117273
A;Accession: E36005
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-122 <SCH>
A;Residues: 1-122 <SCH>
A;Coss-references: GB:M34030
C;Genetics:
A;Genetics:
A;Genetics: A;Genetics: A;Genetics: A;Genetics: A;Genetics: A;Genetics: GB:118731; OMIM:146910
C;Genetics: A;Genetics: Immunoglobulin V region; immunoglobulin homology
C;Superfamily: immunoglobulin homology <IMM>F;15-98/Domain: immunoglobulin homology <IMM>F;15-98/Domain: immunoglobulin homology
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C; Date: 21-Jan-1994 #sequence_revision 18-Nov-1994 #text_change 23-Jul-1999
C; Accession: A49028
R; Timmers, E.; Kenter, M.; Thompson, A.; Kraakman, M.E.; Berman, J.E.; Alt, I Eur. J. Immunol. 21, 2355-2363, 1991
A; Title: Diversity of immunoglobulin heavy chain gene segment rearrangement. A; Reference number: A49028
A; Reference number: A49028; MUID:92008140; PMID:1915549
A; Accession: A49028
A; Residues: preliminary
A; Molecule type: mRNA
A; Residues: 1-133 < TIM>
A; Residues: 1-133 < TIM>
A; Residues: B lymphoblastoi
A; Cross-references: GB:S64471; NID:g236904; PIDN:AAB20011.1; PID:g236905
A; Experimental source: X-linked agammaglobulinemia patients, B lymphoblastoi
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 15-98/Domain: immunoglobulin homology < IMM>
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                                                                                                                                                                                                                             23-Jul-1999
                                                                                                                                                                                          C; Species: Homo sapiens (man)
C; Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 23-Jul-1999
C; Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 23-Jul-1999
C; Accession: S38493
R; Marks, J.D.; Ouwehand, W.H.; Bye, J.M.; Finnern, R.; Gorick, B.D.; Voak, submitted to the EMBL Data Library, June 1993
A; Description: Human antibody fragments specific for human blood group antipaperence number: S38498
A; Reference number: S38493
A; Accession: S38493
A; Accession: S38493
A; Accession: S38493
A; Accession: S38493
A; Cross-references: EMBL: Z23036; NID: G414033; PIDN: CAA80571.1; PID: G414034
C; Superfamily: immunoglobulin V region; immunoglobulin
C; Keywords: heterotetramer; immunoglobulin
F; 15-98/Domain: immunoglobulin homology < IMM>
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                                                                                                                                                                                                                                                                                B.D.; Voak,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PID:9414034
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ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDR--GISAGGNYYYYG
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Pred. No. 3.9e-41;
3; Mismatches 6;
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Pred. No. 6.1e-42;
; Mismatches 6;

    human (fragment)
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lines

on phe

displayed

PID:91335369

.. N

Gaps

3

Indels

9

112

112

Griffiths, A.D.;

20-Jun-2000

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C; Species: Homo sapiens (man)
C; Date: 22-Jan-1993 #sequence_revision 22-Jan-1993 #text_change 20-Jun-2000
C; Date: 22-Jan-1993 #sequence_revision 22-Jan-1993 #text_change 20-Jun-2000
C; Accession: $19666
R; Marks, J.D.; Hoogenboom, H.R.; Bonnert, T.P.; McCafferty, J.; Griffiths, A.J. Mol. Biol. 222, 581-597, 1991
A; Title: By-passing immunization. Human antibodies from V-gene libraries display telerence number: $19663; MUID: 92085276; PMID: 1748994
A; Accession: $19666
A; Molecule type: mRNA
A; Molecule type: mRNA
A; Molecule type: mRNA
A; Residues: 1-121 < MAR>
A; Cross-references: EMBL: X61646; NID: 937688; PIDN: CAA43827.1; PID: 91335369
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 15-98/Domain: immunoglobulin homology < IMM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 8
531679
Ig heavy chain V region - human (fragment)
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 23-Jul-1999;
C; Accession: S31679
R; Cuisinier, A.M.; Gauthier, L.; Boubli, L.; Fougereau, M.; Tonnelle, C.
R; Cuisinier, A.M.; Gauthier, L.; Boubli, L.; Fougereau, M.; Tonnelle, C.
R; Cuisinier, A.M.; Gauthier, L.; Boubli, L.; Fougereau, M.; Tonnelle, C.
R; Cuisinier, A.M.; Gauthier, L.; Boubli, L.; Fougereau, M.; Tonnelle, C.
A; Description: Mechanisms that generate human immunoglobulin diversity open A; Reference number: S31585
A; Accession: S31679
A; Residues: 1-134 < CUI>
A; Residues: 1-134 < CUI>
A; Residues: 1-134 < CUI>
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 34-117/Domain: immunoglobulin homology < IMM>
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S46390
Ig heavy chain V region - human
C; Species: Homo sapiens (man)
C; Date: 27-Jan-1995 #sequence_revision 27-Jan-1995 #text_change
C; Accession: S46390
R; Figini, M.; Marks, J.D.; Winter, G.; Griffiths, A.D.
J. Mol. Biol. 239, 68-78, 1994
A; Title: In vitro assembly of repertoires of antibody chains on A; Reference number: S46390; MUID: 94254092; PMID: 8196048
A; Accession: S46390
A; Status: preliminary
A; Molecule type: DNA
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Pred. No. 2.3e-40;
5; Mismatches 5;
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Pred. No. 2.6e-40;
1; Mismatches 3
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larity 90.2%;
Conservative
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Local Similarity 89.4%;
les 101; Conservative
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Best Local Similarity
Matches 101; Conser
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C;Species: Homo sapiens (man)
C;Date: 21-Dec-1990 #sequence_revision 21-Dec-1990 #text_change 09-Jul-;
C;Accession: F36005
R;Schroeder Jr., H.W.; Wang, J.Y.
Proc. Natl. Acad. Sci. U.S.A. 87, 6146-6150, 1990
A;Title: Preferential utilization of conserved immunoglobulin heavy chance number: A36005; MUID:90349571; PMID:2117273
A;Accession: F36005
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-119 <SCH>
A;Residues: 1-119 <SCH>
A;Coss-references: UNIPROT:QBWUKL; GB:M34026
C;Genetics:
A;Coss-references: GDB:118731; OMIM:146910
A;Map position: 14q32.33-14q32.33
C;Superfamily: immunoglobulin V region; immunoglobulin
B;St-98/Domain: immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;15-98/Domain: immunoglobulin homology <IMM>
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Ig heavy chain V region (M74) - human
C; Species: Homo sapiens (man)
C; Date: 21-Dec-1990 #sequence_revision 21-Dec-1990 #text_change 09-
C; Accession: G36005
R; Schroeder Jr., H.W.; Wang, J.Y.
Proc. Natl. Acad. Sci. U.S.A. 87, 6146-6150, 1990
A; Title: Preferential utilization of conserved immunoglobulin heavy
A; Reference number: A36005; MUID: 90349571; PMID: 2117273
A; Accession: G36005
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-121 <SCH>
A; Cross-references: UNIPROT:Q8WUK1; GB:M34031
C; Genetics:
A; Gene: GDB:IGHQ; IGHDY1
A; Cross-references: GDB:118731; OMIM:146910
A; Map position: 14q32.33-14q32.33
C; Superfamily: immunoglobulin V region; immunoglobulin
F; 15-98/Domain: immunoglobulin homology <IMM>
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8.1e-41;
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Pred. No. 6.6e-41;
2; Mismatches 8;
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Pred. No.
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ilarity 91.1%;
Conservative
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ilarity 98.1%;
Conservative
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S19666
Ig heavy chain V region (VH3DJH4)
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C. Species: Homo sapiens (man)
C. Species: Homo sapiens (man)
C. Date: 07-Jan-1994 #sequence_revision 17-Nov-1995 #text_change 23-Jul-1999
C. Accession: S29546; S26888
R; Tomlinson, M; Walter, G; Cook, G.P; Winter, G.
submitted to the EMBL Data Library, October 1992
A; Reference number: S29543
A; Accession: S29543
A; Accession: S29546
A; Residues: 1-98 < TOM>
A; Note: designated CoS-8
R; Tomlinson, I.M.; Walter, G.; Marks, J.D.; Llewelyn, M.B.; Winter, G.
J. Mol. Biol. 227, 776-798, 1992
A; Title: The repertoire of human germline V(H) sequences reveals about fift A; Reference number: S26885; MUID:93021117; PMID:1404388
A; Reference number: S26885; MUID:93021117; PMID:1404388
A; Accession: S26888
A; Accession: S26888
A; Accession: S26888
A; Residues: 1-98 < TO2>
A; Coss-references: EMBL:Z12346; NID:932912; PIDN:CAA78216.1; PID:932913
A; Molecule type: DNA
A; Residues: 1-98 < TO2>
A; Cross-references: EMBL:Z12346; NID:932912; PIDN:CAA78216.1; PID:932913
C; Keywords: heterotetramer; immunoglobulin
F; 15-98/Domain: immunoglobulin homology < IMM>
                                                                         QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
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C; Date: 27-Jan-1995 #sequence_revision 27-Jan-1995 #text_change 20-C; Date: 27-Jan-1995 #sequence_revision 27-Jan-1995 #text_change 20-C; Accession: S46392
R; Figini, M.; Marks, J.D.; Winter, G.; Griffiths, A.D.
J. Mol. Biol. 239, 68-78, 1994
A; Title: In vitro assembly of repertoires of antibody chains on the A; Reference number: S46390; MUID: 94254092; PMID: 8196048
A; Reference number: S46390; MUID: 94254092; PMID: 8196048
A; Reference number: S46390; MUID: 94254092; PMID: 8196048
A; Residues: 1-114 <FIG>A; Cross-references: EMBL: Z31688; NID: 9499306; PIDN: CAA83493.1; PID: C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 15-98/Domain: immunoglobulin homology <IMM>
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C; Species: Homo sapiens (man)
C; Date: 02-Dec-1993 #sequence_revision 26-May-1995 #text_change 09-C; Accession: S31116
R; Raaphorst, F.M.; Timmers, E.; Kenter, M.J.H.; van Tol, M.J.D.; V(Eur. J. Immunol. 22, 247-251, 1992
A; Title: Restricted utilization of germ-line V(H)3 genes and short A; Reference number: S31104; MUID:92111633; PMID:1730252
A; Accession: S31116
A; Reference number: S31104; MUID:92111633; PMID:1730252
A; Accession: S31116
A; Residues: preliminary; nucleic acid sequence not shown; translation A; Molecule type: mRNA
A; Residues: 1-118 < RAA>
A; Residues: 1-118 < RAA>
A; Residues: 1-118 < RAA>
Cross-references: UNIPROT:Q8WUK1; EMBL:X62966
A; Note: the nucleotide sequence was submitted to the EMBL Data Libn C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 15-98/Domain: immunoglobulin homology <IMM>
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C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 02-Dec-1993 #sequence_revision 26-May-1995 #text_change 09-C;Accession: S31119
R;Raaphorst, F.M.; Timmers, E.; Kenter, M.J.H.; van Tol, M.J.D.; VG
Eur. J. Immunol. 22, 247-251, 1992
A;Title: Restricted utilization of germ-line V(H)3 genes and short A;Reference number: S31119
A;Reference number: S31119
A;Reference number: S31119
A;Residues: preliminary; nucleic acid sequence not shown; translation A;Molecule type: mRNA
A;Residues: 1-122 <RAA>
A;Cross-references: UNIPROT:Q8WUK1; EMBL:X62970
A;Note: the nucleotide sequence was submitted to the EMBL Data Libra C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;15-98/Domain: immunoglobulin homology <IMM>
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                           A; Cross-references: EMBL: Z31686; NID: g509782; PIDN: CAA83491.1; C; Superfamily: immunoglobulin V region; immunoglobulin homology C; Keywords: heterotetramer; immunoglobulin F;15-98/Domain: immunoglobulin homology <IMM>
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Pred. No. 2.4e-40;
3; Mismatches 3
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Pred. No. 6.5e-40;
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                                                                                                                                                                                            J.M.; Embleton, M.J.; McCafferty,
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C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 07-Jun-1990 #sequence_revision 07-Jun-1990 #text_change 09-Jul-2004
C;Accession: PL0098
R;Nickerson, K.G.; Berman, J.; Glickman, E.; Chess, L.; Alt, F.W.
J. Exp. Med. 169, 1391-1403, 1989
A;Title: Early human IgH gene assembly in Epstein-Barr virus-transformed fets
8.
A;Reference number: PL0098; MUID:89176893; PMID:2538551
A;Accession: PL0098
A;Molecule type: DNA
A;Residues: 1-130 <NIC>
A;Cross-references: UNIPROT:Q8WUK1
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;17-120/Product: Ig heavy chain V-III region FL2-2 #status predicted <MAT>F;32-115/Domain: immunoglobulin homology <IMM>
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                                                                                                          Ig heavy chain V region (clone alpha-TNF-E1) - human (fragment)
C; Species: Homo sapiens (man)
C; Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 23-C; Accession: S36270
R; Griffiths, A.D.; Malmqvist, M.; Marks, J.D.; Bye, J.M.; Embleton, EMBO J. 12, 725-734, 1993
A; Title: Human anti-self antibodies with high specificity from phage A; Title: Human anti-self antibodies with high specificity from phage A; Reference number: S36256; MUID:93178448; PMID:7679990
A; Reference number: S36256; MUID:93178448; PMID:7679990
A; Reference number: S36256; MUID:9317848; PMID:7679990
A; Reference number: S36256; MUID:93118; PIDN:CAA79291.1; PID:90; C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 15-98/Domain: immunoglobulin homology < IMM>
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16 ADSVKGRFTISRDNSKNTLYLQMNGLRAEDTAVYYCAKDL-
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Pred. No. 2.5e-39;
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S31112
Ig heavy chain - human
C;Species: Homo sapiens (man)
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C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 03-Mar-1994 #sequence_revision 10-Nov-1995 #text_change 23-Jul-1
C; Accession: S31603
R; Cuisinier, A.M.; Gauthier, L.; Boubli, L.; Fougereau, M.; Tonnelle, C. submitted to the EMBL Data Library, June 1992
A; Description: Mechanisms that generate human immunoglobulin diversity of A; Reference number: S31585
A; Accession: S31603
A; Reference number: S31585
A; Accession: S31603
A; Residues: 1-132 <CUI>A; Residues: 1-132 <CUI>C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F;30-113/Domain: immunoglobulin homology <IMM>
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C; Species: Homo sapiens (man)
C; Date: 02-Dec-1993 #sequence_revision 26-May-1995 #text_change 17-C; Date: 02-Dec-1993 #sequence_revision 26-May-1995 #text_change 17-C; Accession: S31111
R; Raaphorst, F.M.; Timmers, E.; Kenter, M.J.H.; van Tol, M.J.D.; Vo Eur. J. Immunol. 22, 247-251, 1992
A; Title: Restricted utilization of germ-line V(H) 3 genes and short A; Reference number: S31104; MUID: 92111633; PMID: 1730252
A; Accession: S31111
A; Status: preliminary; nucleic acid sequence not shown; translation A; Molecule type: mRNA
A; Residues: 1-119 < RAA>
A; Residues: 1-119 < RAA>
A; Cross-references: EMBL: X62959
A; Note: the nucleotide sequence was submitted to the EMBL Data Libit C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 15-98/Domain: immunoglobulin homology < IMM>
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Pred. No. 1.2e-39;
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Pred. No. 9.9e-40;
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C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens
C;Superfamily: Homo sa
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C; Species: Homo sapiens (man)
C; Date: 07-Jun-1990 #sequence_revision 07-Jun-1990 #text_change 23-J
C; Accession: PL0116; S26892
R; Bird, J.; Galili, N.; Link, M.; Stites, D.; Sklar, J.
J. Exp. Med. 168, 229-245, 1988
A; Title: Continuing rearrangement but absence of somatic hypermutation; A; Reference number: PL0116; MUID: 88286083; PMID: 2840480
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C;Date: 02-Dec-1993 #sequence_revision 26-May-1995 #text_change 17-C;Accession: S31112
R;Raaphorst, F.M.; Timmers, E.; Kenter, M.J.H.; van Tol, M.J.D.; Vo Eur. J. Immunol. 22, 247-251, 1992
A;Title: Restricted utilization of germ-line V(H)3 genes and short A;Reference number: S31104; MUID:92111633; PMID:1730252
A;Accession: S31112
A;Accession: S31112
A;Accession: S31112
A;Accession: S31112
A;Molecule type: mRNA
A;Residues: 1-120 <RAA>
A;Residues: 1-120 <RAA>
A;Residues: 1-120 <RAA>
A;Note: the nucleotide sequence was submitted to the EMBL Data Libr C;Superfamily: immunoglobulin V region; immunoglobulin homology C;Keywords: heterotetramer; immunoglobulin
F;15-98/Domain: immunoglobulin homology <IMM>
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Pred. No. 2.9e-39;
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Pred. No. 2.9e-39;
0; Mismatches 2;
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llarity 98.0%;
Conservative
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Best Local S
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Best Local
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cells from patient AW with acute lymphoblastic leukemia, ALL is the V region (AW-Vx) from a nonproductive DNA rearrangement; G.; Marks, J.D.; Llewelyn, M.B.; Winter, G.
                                                                                                                                                                               of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Igheavy chain - human (fragment)

C; Species: Homo sapiens (man)

C; Species: Homo sapiens (man)

C; Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 23-Jul-1999

C; Accession: S38490

R; Marks, J.D.; Ouwehand, W.H.; Bye, J.M.; Finnern, R.; Gorick, B.D.; Voak, D.; Thorp submitted to the EMBL Data Library, June 1993

A; Description: Human antibody fragments specific for human blood group antigens from A; Reference number: S38480

A; Reference number: S38490

A; Reference preliminary

A; Molecule type: DNA

A; Residues: 1-113 < MAR>
A; Residues: 1-113 < MAR>
A; Residues: 1-113 < MAR>
C; Superfamily: immunoglobulin V region; immunoglobulin homology

C; Keywords: heterotetramer; immunoglobulin

F; 15-98/Domain: immunoglobulin Primeroses
                                                                                                                                                                                   groups
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                            Cross-references: EMBL: Z12349; NID: g32918; PIDN: CAA78219.1; PID: g32919 Superfamily: immunoglobulin V region; immunoglobulin homology Keywords: acute lymphoblastic leukemia; heterotetramer; immunoglobulin 15-98/Domain: immunoglobulin homology <IMM> 31-35/Region: complementarity-determining 1 49-65/Region: complementarity-determining 2
                                                                                                                                                                                reveals about
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C; Species: Homo sapiens (man)
C; Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 23-Ju
C; Date: 03-Feb-1994 #sequence_revision 03-Feb-1994 #text_change 23-Ju
C; Accession: S36259
R; Griffiths, A.D.; Malmqvist, M.; Marks, J.D.; Bye, J.M.; Embleton, M
EMBO J. 12, 725-734, 1993
A; Title: Human anti-self antibodies with high specificity from phage
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A; Molecule type: mRNA
A; Residues: 1-98 <BIR>
A; Rominson, I.98 <BIR>
A; Note: the sequence shows the V region (AW-Vx) from a nonprover by the sequence shows the V region (AW-Vx) from a nonprover by Malter, G.; Marks, J.D.; Llewelyn, M.B.; J. Mol. Biol. 227, 776-798, 1992
A; Title: The repertoire of human germline V(H) sequences rev A; Reference number: $26892
A; Reference number: $26895; MUID:93021117; PMID:1404388
A; Accession: $26892
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-98 <TOM>
A; Cross-references: EMBL:212349; NID:g32918; PIDN:CAA78219.1
C; Superfamily: immunoglobulin V region; immunoglobulin homol C; Reywords: acute lymphoblastic leukemia; heterotetramer; in F; 15-98/Domain: immunoglobulin homology <IMM>
F; 31-35/Region: complementarity-determining 1
F; 49-65/Region: complementarity-determining 2
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Pred. No. 4.1e-39
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 505; DB 2;
Pred. No. 3.5e-39
; Mismatches
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Similarity 98.0%;
96; Conservative
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Similarity 94.2%;
97; Conservative
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Best Local S
Matches 96
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Best Local S
Matches 97
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$31701

Ig heavy chain V region - human (fragment)
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 23-Jul-1
C; Accession: S31701
R; Cuisinier, A.M.; Gauthier, L.; Boubli, L.; Fougereau, M.; Tonnelle, C. submitted to the EMBL Data Library, June 1992
A; Description: Mechanisms that generate human immunoglobulin diversity of A; Reference number: S31585
A; Accession: S31701
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-137 <CUI>A; Residues: 1-137 <CUI>CUI>C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 34-117/Domain: immunoglobulin homology <IMM>
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S70442
Ig heavy chain precursor V region (mu) - human (fragment)
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 24-Jul-1998 #sequence_revision 24-Jul-1998 #text_change 09-C; Accession: S70442
R; Cuisinier, A.M.; Fumoux, F.; Fougereau, M.; Tonnelle, C.
Mol. Immunol. 29, 1363-1373, 1992
A; Title: IgM kappa/lambda EBV human B cell clone: an early step of A; Reference number: S70442; MUID: 93024508; PMID: 1383695
A; Reference number: S70442
A; Reference number: S70442
A; Reference number: UNIPROT: Q8WUK1
C; Status: not compared with conceptual translation
A; Molecule type: mRNA
A; Residues: 1-140 < CUI>
C; Superfamily: immunoglobulin V region; immunoglobulin homology
F; 34-117/ Domain: immunoglobulin homology < IMM>
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A; Reference number: S36256; MUID: 93178448; PMID: 7679990
A; Accession: S36259
A; Status: preliminary; nucleic acid sequence not shown
A; Molecule type: mRNA
A; Residues: 1-117 <GRI>A; Residues: 1-117 <GRI>C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
E; 15-98/Domain: immunoglobulin homology <IMM>
                                                                                                                                                                                                                              Length
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                                                                                                                                                                                                                     Score 504.5; DB 2;
Pred. No. 4.7e-39;
5; Mismatches 12;
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ilarity 84.3%;
Conservative
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les 98; Conser
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nes 97; Conser
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C; Species: Homo sapiens (man)
C; Date: 16-Feb-1996 #sequence_revision 16-Feb-1996 #text_change 23-C; Accession: 137780; S25474
R; Demaison, C.; Chastagner, P.; Theze, J.; Zouali, M.
Proc. Natl. Acad. Sci. U.S.A. 91, 514-518, 1994
A; Title: Somatic diversification in the heavy chain variable region A; Reference number: A36876; MUID: 94119917; PMID: 8290556
A; Accession: 137780
A; Molecule type: mRNA
A; Residues: 1-147 < RES>
A; Cross-references: EMBL: X67943; NID: 933578; PIDN: CAA48130.1; PID: C; Superfamily: immunoglobulin V region; immunoglobulin homology
F; 28-111/Domain: immunoglobulin homology < IMM>
                                                                                                                                                                                                                                                 _change
 Length 137
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 147
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                               Indels
                                                                                                                                                                                                                      - human (fragment)
                                                                                                                 97
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Pred. No. 2.3e-38;
3; Mismatches 12;
                                1;
 ; DB 2;
1.7e-38;
                                                                                                                Score 499; DB Pred. No. 1.7e 1; Mismatches
                                                                                                                                                                                                                    (clone T20-11)
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                              1;
  82.1%;
97.9%;
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Similarity 85.2%;
98; Conservative
                Similarity 97.
95; Conservative
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using sw model protéin search, OM protein

Search time 107.265 Second (without alignments) 411.670 Million cell upda 07:43:15 2005, 16, June 0 ::

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US-09-920-137D-7 608 Title: Perfect

.. CARDRGISAGGNYYYYGMDV QVQLVESGGGVVQPGRSLRL. score:

Sequence:

0.5 Gapext BLOSUM62 Gapop 10.0 table: Scoring

residues 383979560 1714042 segs, Searched:

1714042 hits satisfying chosen parameters: o£ Total number

length: length: seq seq Minimum DB Maximum DB

2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 100 summaries

Database

Published

Published Applications AA:\*

| Cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*
| Cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep:\*
| Cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep:\*
| Cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep:\*
| Cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep:\*
| Cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep:\*
| Cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*
| Cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*
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| Cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*
| Cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep:\*
| Cgn2\_6/ptodata/2/pubpaa/US11A\_PUBCOMB.pep:\* 

Pred. No. is the number of results predicted by chance to have score greater than or equal to the score of the result being pand is derived by analysis of the total score distribution.

## SUMMARIES

bescription  tch Length DB ID  0.0 115 14 US-10-305-347A-7  0.0 115 18 US-10-954-900A-7  1.0 123 15 US-10-292-088-117  1.0 124 15 US-10-325-694-144  0.5 125 15 US-10-325-694-150  0.5 125 15 US-10-325-694-150  0.5 125 15 US-10-325-694-150  0.5 252 10 US-09-880-748-1731  0.5 252 10 US-09-880-748-1731  0.5 252 15 US-10-293-418-1731  0.5 126 14 US-10-041-860-17  0.5 126 14 US-10-041-860-209  0.5 126 14 US-10-041-860-209			,				
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608       100.0       115       18       US-10-954-900A-7       Sequence 7, 7         53.5       91.0       123       15       US-10-292-088-117       Sequence 117, 8         53.5       91.0       138       14       US-10-325-694-144       Sequence 144, 8         55.3       91.0       124       15       US-10-371-942-82       Sequence 127, 8         50.5       90.5       125       15       US-10-292-088-107       Sequence 150, 8         50.5       90.5       138       14       US-10-325-694-150       Sequence 173         50.5       90.5       252       10       US-09-880-748-1731       Sequence 173         50.5       90.5       126       14       US-10-041-860-17       Sequence 17, 8         550       90.5       126       14       US-10-041-860-209       Sequence 209, 8	i	608	100.0			US-10-305-347A-	7,
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553       91.0       124       15       US-10-371-942-82       Sequence 82,         50.5       90.5       125       15       US-10-292-088-107       Sequence 107,         50.5       90.5       138       14       US-10-325-694-150       Sequence 150,         50.5       90.5       252       10       US-09-880-748-1731       Sequence 1731         50.5       90.5       252       15       US-10-293-418-1731       Sequence 1731         550       90.5       126       14       US-10-041-860-17       Sequence 209,         550       90.5       126       14       US-10-041-860-209       Sequence 209,		53		138	14	-10-325-694-	144,
50.5       90.5       125       15       US-10-292-088-107       Sequence 107,         50.5       90.5       138       14       US-10-325-694-150       Sequence 150,         50.5       90.5       252       10       US-09-880-748-1731       Sequence 1731         50.5       90.5       252       15       US-10-293-418-1731       Sequence 173         550       90.5       126       14       US-10-041-860-17       Sequence 209,         550       90.5       126       14       US-10-041-860-209       Sequence 209,	•	553		124	15	10-371-942-8	82,
50.5       90.5       138       14       US-10-325-694-150       Sequence 150,         50.5       90.5       252       10       US-09-880-748-1731       Sequence 1731         50.5       90.5       252       15       US-10-293-418-1731       Sequence 1731         550       90.5       126       14       US-10-041-860-17       Sequence 209,         550       90.5       126       14       US-10-041-860-209       Sequence 209,		50		125	15	10-292-088-10	107,
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 132, App
25, Appl
62, Appl
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1102, Ap
1115, Ap
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115, App
15, Appl
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US-10-305-347A-7
; Sequence 7, Application US/10305347A
; Publication No. US20030143603A1
; GENERAL INFORMATION:
; APPLICANT: Giles-Komar, Jill
; APPLICANT: Bernie Scallon
; TITLE OF INVENTION: ANTI-TNF ANTIBODIES, COMPOSITIONS, METHODS AND USE;
; FILE REFERENCE: CENSOOS
; CURRENT APPLICATION NUMBER: US/10/305,347A
; CURRENT FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patentin Ver 3.0
; SEQ ID NO 7
; LENGTH: 115
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-305-347A-7
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US-10-309-762-132
US-09-848-798-25
US-10-292-088-58
US-10-292-088-62
US-10-395-894-19
US-10-695-667-19
US-09-880-748-1102
US-09-880-748-1115
US-10-293-418-1115
US-10-293-418-1115
US-10-395-894-15
US-10-395-667-15
US-10-727-155-66
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Best Local Similarity 100.0%; Pred. No. 2.1e-48;
Matches 115; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 7, Application US/10954900A
; Sequence 7, Application US/10954900A
; Publication No. US20050123541A1
; GENERAL INFORMATION:
; APPLICANT: Giles-Komar, Jill
; APPLICANT: David Knight
; APPLICANT: David Knight
; APPLICANT: Bernie Scallon
APPLICANT: George Heavner
; TITLE OF INVENTION: ANTI-TNF ANTIBODIES, COMP
; FILE REFERENCE: CEN0250 DIV-2
; CURRENT APPLICATION NUMBER: US/10/954,900A
; CURRENT FILING DATE: 2004-09-30
; PRIOR FILING DATE: 2001-08-01
; PRIOR FILING DATE: 2000-08-07
; PRIOR FILING DATE: 2000-09-29
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                                                                                                                  608; DB 18;
No. 2.1e-48;
matches 0;
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Publication No. US20030148463A1

GENERAL INFORMATION:
APPLICANT: KUFER, PETER
TITLE OF INVENTION: NOVEL METHOD FOR THE PRO
TITLE OF INVENTION: RECEPTORS AND USES THER
FILE REFERENCE: 38164000
CURRENT APPLICATION NUMBER: US/10/325,694
CURRENT FILING DATE: 2002-12-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 553.5;
Pred. No. 2.
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03-14
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PRIOR FILING DATE: 1999-10-14
NUMBER OF SEO ID NOS: 152
                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: BEDIAN, VAHE
APPLICANT: GLADUE, RONALD P.
APPLICANT: GLADUE, RONALD P.
APPLICANT: CORVALAN, JOSE
APPLICANT: JIA, XIAO-CHI
APPLICANT: JIA, XIAO-CHI
APPLICANT: FENG, XIAO
TITLE OF INVENTION: ANTIBODIES TO CD40
FILE REFERENCE: ABX-PF/3 US
CURRENT APPLICATION NUMBER: US/10/292,(
CURRENT FILING DATE: 2003-03-14
PRIOR FILING DATE: 2001-11-09
NUMBER OF SEQ ID NOS: 147
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 117
LENGTH: 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CD40
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Pred.
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5. US20030211100A1
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US-10-292-088-117
                                                                       ; ORGANISM: Homo sapiens
US-10-954-900A-7
               PatentIn Ver
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 OF SEQ ID NOS:
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Sequence 117, Applicat
Publication No. US2003
GENERAL INFORMATION:
                                                                                                                               l Similarity
115; Conser
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108; Conser
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Best Local S
Matches 115
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                                                            TYPE: PRT
            SOFTWARE:
SEQ ID NO 7
LENGTH: 1
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Query Match
Best Local S
Matches 107
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                                                                                                                                                                                                                                                                                                                                                          Sequence 82, Application US/10371942
; Publication No. US20030223994A1
; GENERAL INFORMATION:
; APPLICANT: Hoogenboom, Henricus Renerus Jacobus Mattheus
; TITLE OF INVENTION: MHC-PEPTIDE COMPLEX BINDING LIGANDS
; FILE REFERENCE: 10280-034001
; CURRENT APPLICATION NUMBER: US/10/371,942
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: US 60/358,994
; PRIOR FILING DATE: 2002-02-20
                                                                                                                                                Indels
                                                                                                                14;
                                                                                                                                              9
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Pred. No. 2.6e-43;
2; Mismatches 5;
                                                                                                               Score 553.5; DB 1
Pred. No. 2.6e-43;
1; Mismatches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: BEDIAN, VAHE
APPLICANT: GLADUE, RONALD P.
APPLICANT: CORVALAN, JOSE
APPLICANT: JIA, XIAO-CHI
APPLICANT: JIA, XIAO-CHI
APPLICANT: FENG, XIAO
TITLE OF INVENTION: ANTIBODIES TO CD40
FILE REFERENCE: ABX-PF/3 US
CURRENT APPLICATION NUMBER: US/10/292,088
CURRENT FILING DATE: 2003-03-14
PRIOR FILING DATE: 2001-11-09
NUMBER OF SEQ ID NOS: 147
SOFTWARE: Patentin Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 121
SOFTWARE: FastSEQ for Windows Version 4.0
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Publication No. US20030211100A1
GENERAL INFORMATION:
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ilarity 92.2%;
Conservative
                                                                                                               91.0%;
illarity 91.4%;
Conservative
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US-10-371-942-82
SOFTWARE: Patentin Ver.
SEQ ID NO 144
LENGTH: 138
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106; Conser
                                                                                                                                Best Local Similarity
Matches 106; Conser
                                LENGTH: 138
TYPE: PRT
ORGANISM: HUMAN
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                                                                                US-10-325-694-144
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US-10-371-942-82
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LENGTH: 124
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                                                                                                                Query Match
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APPLICANT: KUFER, PETER
APPLICANT: RAUM, TOBIAS
TITLE OF INVENTION: NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN
TITLE OF INVENTION: RECEPTORS AND USES THEREOF
FILE REFERENCE: 38164000
CURRENT APPLICATION NUMBER: US/10/325,694
CURRENT FILING DATE: 2002-12-19
PRIOR APPLICATION NUMBER: US/09/403,107
PRIOR FILING DATE: 1999-10-14
NUMBER OF SEQ ID NOS: 152
SOFTWARE: Patentin Ver. 2.1
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                                                                                                                                       Sequence 1731, Application US/09880748
Publication No. US20030059937A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
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                                                                              125
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                                                                                                            Indels
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Pred. No. 5e-43;
1; Mismatches 6;
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9
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                                                                                                       Mismatches
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CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
                                                                             Score 550.5;
Pred. No. 4.
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APPLICATION NUMBER: 60/293 400
FILING DATE:
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2001-05-25
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                                                                                           Similarity 93.
                               sapiens
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105; Conser
; LENGTH: 125
; TYPE: PRT
; ORGANISM: Homo s
US-10-292-088-107
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US-09-880-748-1731
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LENGTH: 138
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US-10-293-418-1731

Sequence 1731, Application US/10293418

Publication No. US20030223996A1

Sequence 1731, Application US/10293418

Publication No. US20030223996A1

GENERAL INFORMATION:

TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS

FILE REFERENCE: PF523P2

CURRENT FILING DATE: 2002-11-27

PRIOR APPLICATION NUMBER: US/10/293,418

CURRENT FILING DATE: 2001-11-16

PRIOR APPLICATION NUMBER: 60/334,817

PRIOR APPLICATION NUMBER: 60/340,817

PRIOR FILING DATE: 2001-06-15

PRIOR PELING DATE: 2001-06-15

PRIOR PELING DATE: 2001-06-15

PRIOR PELING DATE: 2001-06-15

PRIOR PELING DATE: 2001-03-16

PRIOR PELING DATE: 2001-03-16

PRIOR APPLICATION NUMBER: 60/277,379

PRIOR APPLICATION NUMBER: 60/277,379

PRIOR APPLICATION NUMBER: 60/277,379

PRIOR APPLICATION NUMBER: 60/270,379

PRIOR APPLICATION NUMBER: 60/210,310

PRIOR APPLICATION NUMBER: 60/210,310

PRIOR APPLICATION NUMBER: 60/210,310

PRIOR PILING DATE: 2000-10-3-16

PRIOR PILING DATE: 2000-10-3-16
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.4e-43;
les 5;
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Pred. No. 9.4e
0; Mismatches
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Pred. No. 9.4e
0; Mismatches
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PRIOR FILING DATE: 2000-06-16
NUMBER OF SEQ ID NOS: 3247
SEQ ID NO 1731
LENGTH: 252
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il Similarity 91.6%;
109; Conservative
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llarity 91.6%;
Conservative
    323
NUMBER OF SEQ ID NOS: 32
SOFTWARE: Patentin Ver.
SEQ ID NO 1731
LENGTH: 252
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: Local Similarity
.hes 109; Conserv
                                                                                              ; ORGANISM: Homo US-09-880-748-1731
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APPLICANT: Jia, Xiao-Chi
APPLICANT: Feng, Xiao
APPLICANT: Feng, Xiao
APPLICANT: Feng, Xiao
APPLICANT: Chen, Francine
APPLICANT: Gazit, Gadi
APPLICANT: Weber, Richard
APPLICANT: Weber, Richard
APPLICANT: Bezabeh, Binyam
TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: ABGENIX.051A
CURRENT APPLICATION NUMBER: US/10/041,860
CURRENT FILING DATE: 2002-01-07
NUMBER OF SEQ ID NOS: 377
SOFTWARE: FastSEQ for Windows Version 4.0
                           APPLICANT: Chen, Francine
APPLICANT: Gazit, Gadi
APPLICANT: Weber, Richard
APPLICANT: Weber, Richard
APPLICANT: Bezabeh, Binyam
TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: ABGENIX.051A
CURRENT APPLICATION NUMBER: US/10/041,860
CURRENT FILING DATE: 2002-01-07
NUMBER OF SEQ ID NOS: 377
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 17
LENGTH: 126
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Pred. No. 5e-43;
2; Mismatches
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; Sequence 209, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
                                                                                                                                                                                                                                                                                                                                                    2;
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ilarity 91.3%;
Conservative
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eng, Xiao
ang, Xiao-Dong
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LENGTH: 126
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Best Local S
Matches 105
APPLICANT:
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APPLICANT:
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RESULT 12

US-10-041-860-17; Sequence 17, Application US/10041860; Publication No. US20030157109A1; GENERAL INFORMATION:

RESULT 10

Corvalan, Jose R.F

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APPLICANT: BEDIAN, APPLICANT: GLADUE
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US-10-292-088-116
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Best Local S
Matches 107
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                                                                 APPLICANT: Jia, Xiao-Chi
APPLICANT: Feng, Xiao
APPLICANT: Yang, Xiao-Dong
APPLICANT: Yang, Xiao-Dong
APPLICANT: Chen, Francine
APPLICANT: Gazit, Gadi
APPLICANT: Weber, Richard
APPLICANT: Weber, Richard
TITLE OF INVENTION: THEREOF
TITLE OF INVENTION: THEREOF
FILE REFERENCE: ABGENIX.051A
CURRENT APPLICATION NUMBER: US/10/041,860
CURRENT FILING DATE: 2002-01-07
NUMBER OF SEQ ID NOS: 377
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                            8; Indels
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Publication No. US20040141969A1

GENERAL INFORMATION:

APPLICANT: Floege, Juergen

APPLICANT: Gazit, Gadi

APPLICANT: LaRochelle, William

APPLICANT: Lichenstein, Henri

TITLE OF INVENTION: WEING ANTI-PDGF-DD ANTIBODIES

FILE REFERENCE: ABGENIX.052A

CURRENT APPLICATION NUMBER: US/10/665,383

CURRENT FILING DATE: 2003-09-16

PRIOR APPLICATION NUMBER: 60/411,137

PRIOR PILING DATE: 2002-09-16

NUMBER OF SEQ ID NOS: 97

SOFTWARE: FastSEQ for Windows Version 4.0
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Pred. No. 5e-43;
2; Mismatches
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Pred. No. 5e-43;
2; Mismatches
             Sequence 282, Application US/10041860 Publication No. US20030157109A1 GENERAL INFORMATION:
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ilarity 91.3%;
Conservative
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larity 91.3%;
Conservative
                                                         Corvalan, Jose R.F
Jia, Xiao-Chi
                                                                                                                                                                                                                                                                                                                                 homo sapiens
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hes 105; Conser
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105; Conser
US-10-041-860-282
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ENGTH: 126
                                                                                                                                                                                                                                                                                      SEQ ID NO 282
LENGTH: 126
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Best Local S
Matches 105
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11
ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDQGYRYAGYYYDYGMDV
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Publication No. US20050118651A1

GENERAL INFORMATION:

APPLICANT: BASI, Guriq

TITLE OF INVENTION: HUMANIZED ANTIBODIES THAT RECOGNIZE BET

TITLE OF INVENTION: AMYLOID PEPTIDE

FILE REFERENCE: ELN-028

CURRENT APPLICATION NUMBER: US/10/858,855

CURRENT FILING DATE: 2004-06-01

PRIOR PILING DATE: 2003-05-30

NUMBER OF SEQ ID NOS: 35

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 11

LENGTH: 141

TYPE: PRT
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No. 7e-43;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                       APPLICANT: CORVALAN, JOSE
APPLICANT: JIA, XIAO-CHI
APPLICANT: FENG, XIAO
TITLE OF INVENTION: ANTIBODIES TO CD40
FILE REFERENCE: ABX-PF/3 US
CURRENT APPLICATION NUMBER: US/10/292,088
CURRENT FILING DATE: 2003-03-14
PRIOR APPLICATION NUMBER: 60/348,980
PRIOR FILING DATE: 2001-11-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 549.5;
Pred. No. 5.
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Pred.
                                                                                          Application US/10292088
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93.0%;
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larity 93.0%;
Conservative
                                                                                                                                                                       GLADUE, RONALD I
CORVALAN, JOSE
JIA, XIAO-CHI
FENG, XIAO
                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 147
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 116
LENGTH: 123
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                                                                                                                                                       VAHE
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US-10-292-088-116
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107; Conser
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107; Conser
                                                                                           Sequence 116, Application No. US20 GENERAL INFORMATION:
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Query Match
Best Local S
Matches 105
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APPLICANT:
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APPLICANT:
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80 ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDRHSSS-
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Pred. No. 8.4e-43;
1; Mismatches 5;
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Pred. No. 7.6e-43;
0; Mismatches 6
                                                                           Sequence 106, Application US/10292088
; Publication No. US20030211100A1
; GENERAL INFORMATION:
; APPLICANT: BEDIAN, VAHE
; APPLICANT: GLADUE, RONALD P.
APPLICANT: CORVALAN, JOSE
; APPLICANT: JIA, XIAO-CHI
; APPLICANT: JIA, XIAO
; TITLE OF INVENTION: ANTIBODIES TO CD40
; TITLE OF INVENTION: ANTIBODIES TO CD40
; FILE REFERENCE: ABX-PF/3 US
; CURRENT FPLICATION NUMBER: US/10/292,088
; CURRENT FILING DATE: 2003-03-14
; PRIOR FILING DATE: 2001-11-09
; NUMBER OF SEQ ID NOS: 147
; SOFTWARE: PATENTIN Ver. 2.1
; SEQ ID NO 106
; LENGTH: 124
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APPLICANT: GLADUE, RONALD P.
APPLICANT: GLADUE, RONALD P.
APPLICANT: CORVALAN, JOSE
APPLICANT: JIA, XIAO-CHI
APPLICANT: FENG, XIAO
TITLE OF INVENTION: ANTIBODIES TO CD40
FILE REFERENCE: ABX-PF/3 US
CURRENT APPLICATION NUMBER: US/10/292,088
CURRENT FILING DATE: 2003-03-14
PRIOR APPLICATION NUMBER: 60/348,980
PRIOR FILING DATE: 2001-11-09
NUMBER OF SEQ ID NOS: 147
SOFTWARE: Patentin Ver: 2.1
SEQ ID NO 115
LENGTH: 123
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Publication No. US20030211100A1
GENERAL INFORMATION:
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illarity 93.0%;
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larity 92.2%;
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106; Conserv
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Matches 107; Conser
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US-10-292-088-115
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Best Local S
Matches 106
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SEQ ID NO
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US-10-292
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APPLICANT: John S. Babcook
APPLICANT: Jospal S. Kang
APPLICANT: Larry Green
APPLICANT: Larry Green
APPLICANT: Larry Green
APPLICANT: Larry Green
APPLICANT: Scott Klakamp
APPLICANT: Palaniswami Rathanaswami
APPLICANT: Craig Pigott
APPLICANT: Rathy Manchulencho
APPLICANT: Alealla Faggioni
APPLICANT: Alealla Faggioni
APPLICANT: Giorgio Senaldi
APPLICANT: 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 126;
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Pred. No. 1.2e-42;
; Mismatches 8
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US-10-727-155-206

Sequence 206, Application US/10727155

Publication No. US20050049402A1

GENERAL INFORMATION:
APPLICANT: John S. Babcook
APPLICANT: Jaspal S. Kang
APPLICANT: Jaspal S. Kang
APPLICANT: Larry Green
APPLICANT: Scott Klakamp
APPLICANT: Scott Klakamp
APPLICANT: Rary Haak-Frendscho
APPLICANT: Palaniswami Rathanaswami
APPLICANT: Palaniswami Rathanaswami
APPLICANT: Reina Liang
APPLICANT: Train Tiee
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Kathy Manchulencho
Raffaella Faggioni
Giorgio Senaldi
Qiaojuan Jane Su
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1 Similarity 91.3%;
105; Conservative
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; ORGANISM: Homo sapiens
US-10-727-155-128
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                                                                                                                                                                                                                                                          Indels
TITLE OF INVENTION: ANTIBODIES DIRECTED TO TUMOR NECROSIS TITLE OF INVENTION: FACTOR AND USES THEREOF FILE REFERENCE: ABGENIX.073A CURRENT APPLICATION NUMBER: US/10/727,155 CURRENT FILING DATE: 2003-12-02 PRIOR PILING DATE: 2002-12-02 NUMBER OF SEQ ID NOS: 320 SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 206 LENGTH: 125
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                                                                                                                                                                                                                            Score 545.5; DB 17;
Pred. No. 1.3e-42;
3; Mismatches 6;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Meina Liang
APPLICANT: Rozanne Lee
APPLICANT: Rathy Manchulencho
APPLICANT: Raffaella Faggioni
APPLICANT: Giorgio Senaldi
APPLICANT: Qiaojuan Jane Su
TITLE OF INVENTION: ANTIBODIES DIRECTED TO TUMO
TITLE OF INVENTION: FACTOR AND USES THEREOF
FILE REFERENCE: ABGENIX.073A
CURRENT APPLICATION NUMBER: US/10/727,155
CURRENT FILING DATE: 2003-12-02
PRIOR FILLING DATE: 2002-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 545.5;
Pred. No. 1.3e
3; Mismatches
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SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 218, Application US/10727155
Publication No. US20050049402A1
GENERAL INFORMATION:
APPLICANT: John S. Babcook
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scott Klakamp
Mary Haak-Frendscho
Palaniswami Rathanaswami
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larity 91.3%;
Conservative
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11 Similarity 91.3%;
105; Conservative
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Jaspal S. Kang
Orit Foord
Larry Green
Xiao Feng
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Meina Liang
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105; Conser
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US-10-727-155-218
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LENGTH: 125
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Best Local S
Matches 105
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APPLICANT:
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Matches 10
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Sequence 69, Application US/09144886

Fatent No. US20020155114A1

GENERAL INFORMATION:

APPLICANT: Marks, James D

TITLE OF INVENTION: Therapeutic Monoclonal Antibodies That Neutralize

TITLE OF INVENTION: Botulinum Neurotoxins

TITLE REFERENCE: 2500.117USO

CURRENT APPLICATION NUMBER: US/09/144,886

CURRENT FILING DATE: 1998-08-31

NUMBER OF SEQ ID NOS: 98

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 69

LENGTH: 122
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61 ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARETTVTKEG-YYYYGMDV 114
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US-09-144-886-69
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APPLICANT: Raffaella Faggioni
APPLICANT: Raffaella Faggioni
APPLICANT: Giorgio Senaldi
APPLICANT: Qiaojuan Jane Su
TITLE OF INVENTION: ANTIBODIES DIRECTED TO TUMOR NECROSIS
TITLE OF INVENTION: FACTOR AND USES THEREOF
FILE REFERENCE: ABGENIX.073A
CURRENT APPLICATION NUMBER: US/10/727,155
CURRENT FILING DATE: 2003-12-02
PRIOR APPLICATION NUMBER: 60/430729
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Pred. No. 1.3e-42;
; Mismatches 5;
                                                                                                                                                         APPLICANT: John S. Babcook
APPLICANT: Jaspal S. Kang
APPLICANT: Orit Foord
APPLICANT: Larry Green
APPLICANT: Xiao Feng
APPLICANT: Scott Klakamp
APPLICANT: Palaniswami Rathanaswami
APPLICANT: Palaniswami Rathanaswami
APPLICANT: Craig Pigott
APPLICANT: Meina Liang
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SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 222
LENGTH: 125
                                                                                                 Application US/1072715
5. US20050049402A1
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104; Conser
                                                                                               Sequence 222, Application No. US20 GENERAL INFORMATION:
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; ORGANISM: Hom
US-10-727-155-222
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Best Local
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APPLICANT:
APPLICANT:
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MONOCLONAL ANTIBODIES THAT NEUTRALIZE BOTULINUM
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      122;
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Bublication No. US20030157109A1

GENERAL INFORMATION:

APPLICANT: Corvalan, Jose R.F.

APPLICANT: Feng, Xiao-Chi

APPLICANT: Feng, Xiao-Dong

APPLICANT: Feng, Xiao-Dong

APPLICANT: Feng, Xiao-Dong

APPLICANT: Rang, Xiao-Dong

APPLICANT: Tang, Xiao-Dong

APPLICANT: Tang, Xiao-Chi

APPLICANT: Weber, Richard

APPLICANT: Weber, Richard

APPLICANT: Bezabeh, Binyam

TITLE OF INVENTION: THEREOF

FILE REFERENCE: ABGENIX.051A

CURRENT APPLICATION NUMBER: US/10/041,860

CURRENT FILING DATE: 2002-01-07

NUMBER OF SEQ ID NOS: 377

SOFTWARE: FastSEQ for Windows Version 4.0
                                           Indels
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       Length
Score 544; DB 9; 1
Pred. No. 1.7e-42;
; Mismatches 2;
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Best Local Similarity 92.2%; Pred. No. 1.7e-42;
Matches 106; Conservative 3; Mismatches 2
                                                                                                                                                                                                                                                        RESULT 23
US-10-632-706-66
; Sequence 66, Application US/10632706
; Publication No. US20040175385A1
; GENERAL INFORMATION:
; APPLICANT: MARKS, JAMES D.
; APPLICANT: AMERSDORFER, PETER
; TITLE OF INVENTION: THERAPEUTIC MONOCLONAL;
; TITLE OF INVENTION: THERAPEUTIC MONOCLONAL;
; TITLE OF INVENTION: NEUROTOXINS
; FILE REFERENCE: 407T-895120US
; CURRENT APPLICATION NUMBER: US/10/632,706
; CURRENT FILING DATE: 2003-08-01
; PRIOR FILING DATE: 2002-08-01
; PRIOR FILING DATE: 1998-08-31
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 278
; SOFTWARE: PATENTIN VERSION 3.2
; SEQ ID NO 66
; LENGTH: 122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US/10/632,706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; FEATURE:
; OTHER INFORMATION: single chain antibody
US-10-632-706-66
                                       3;
   Query Match
Best Local Similarity 92.2%;
Matches 106; Conservative
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                                                                                                                                                                  Length 126
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Sequence 210, Application US/10041860

Publication No. US20030157109A1

GENERAL INFORMATION:

APPLICANT: Corvalan, Jose R.F.

APPLICANT: Yang, Xiao-Chi

APPLICANT: Yang, Xiao-Dong

APPLICANT: Chen, Francine

APPLICANT: Gazit, Gadi

APPLICANT: Weber, Richard

APPLICANT: Weber, RI
                                                                                                                                                                                                                       Indels
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                                                                                                                                                                 Score 543; DB 14;
Pred. No. 2.2e-42;
; Mismatches 8
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Pred. No. 2.2e-42;
; Mismatches 8
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ilarity 91.3%;
Conservative
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ne : 109.265 secs
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US-10-041-860-210
                                                                                   sapiens
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105; Conser
                                                                                                                                                                                         l Similarity
105; Conser
                                                      TYPE: PRT
ORGANISM: homo
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SEQ ID NO 25
LENGTH: 126
TYPE: PRT
                                                                                      ; ORGANISM: ho:
US-10-041-860-25
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Matches 10
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Matches
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US-10-041-
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Sequence 26, Application US/09240274

Patent No. 6255455

GENERAL INFORMATION:

APPLICANT: Siegel, Donald L.

TITLE OF INVENTION: Rh(D) - BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL

TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF

FILE REFERENCE: 09596-42U2

CURRENT APPLICATION NUMBER: US/09/240,274

CURRENT FILING DATE: 1999-01-29

EARLIER APPLICATION NUMBER: 60/081,380

EARLIER FILING DATE: 1998-04-10

EARLIER FILING DATE: 1996-10-11

NUMBER OF SEQ ID NOS: 224

SOFTWARE: Patentin Ver. 2.0
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                                                                      Sequence 70, Application US/09472087

Sequence 70, Application US/09472087

Patent No. 6682736

GENERAL INFORMATION:

APPLICANT: HANSON, DOUGLAS C.

APPLICANT: MUELLER, EILLEN E.

APPLICANT: HANKE, JEFFREY H.

APPLICANT: GILMAN, STEVEN C.

APPLICANT: GILMAN, JOSE R.

TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO CTLA-4

FILE REFERENCE: ABX-PF1

CURRENT APPLICATION NUMBER: US/09/472,087

CURRENT FILING DATE: 1999-12-23

PRIOR FILING DATE: 1998-12-23

PRIOR FILING DATE: 1998-12-23

NUMBER OF SEQ ID NOS: 147

SOFTWARE: PATENTIN VEY: 2.1

SEQ ID NO 70

LENGTH: 451
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Pred. No. 9.2e-48;
9; Mismatches
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Pred. No. 4.4e-48;
1; Mismatches
ALIGNMENTS
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; OTHER INFORMATION: anti-Rh(D)
US-09-240-274-26
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Conservative
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; ORGANISM: Homo sapiens
US-09-472-087-70
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Matches 99; Conserv
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SEQ ID NO 26
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US-09-240-274-26
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Sequence 153, Application US/09240274

Patent No. 6255455

GENERAL INFORMATION:

APPLICANT: Siegel, Donald L.

TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELI

FILE REFERENCE: 09596-42U2

CURRENT APPLICATION NUMBER: US/09/240,274

CURRENT FILING DATE: 1999-01-29

EARLIER APPLICATION NUMBER: 60/081,380

EARLIER APPLICATION NUMBER: 60/028,550

EARLIER FILING DATE: 1996-10-11

NUMBER OF SEQ ID NOS: 224
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Pred. No. 3.8e-47
9; Mismatches
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Stephen M.J.
Anthony R.
Michael A.
Braydon C.
SURFACE RESIDUE VANTIBODIES
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MEDIUM TYPE: Floppy disk
COMPUTER: HP 9000/700 Workstation
OPERATING SYSTEM: UNIX
SOFTWARE: In house
CURRENT APPLICATION DATA:
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Avenue,
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2100 Pensylvania
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iilarity 85.2%;
Conservative
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TITLE OF INVENTION: SURE
TITLE OF INVENTION: ANTI
NUMBER OF SEQUENCES: 522
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sughrue, Mi
STREET: 2100 Pensylvan
CITY: Washington
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SEARLE,
REES,
ROGUSKA,
GUILD,
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LENGTH: 126
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GENERAL INFORMATION:

TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED:

TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF

FILE REFERENCE: 09596-42U2

CURRENT APPLICATION NUMBER: US/09/240,274

CURRENT FILING DATE: 1999-01-29

EARLIER APPLICATION NUMBER: 60/081,380

EARLIER FILING DATE: 1998-04-10

EARLIER FILING DATE: 1996-10-11

NUMBER OF SEQ ID NOS: 224

SOFTWARE: Patentin Ver. 2.0
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Pred. No. 5.8e-47;
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Pred. No. 6.2e-47;
9; Mismatches 8;
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APPLICATION NUMBER: US/07/942,24
FILING DATE: 09-SEP-1992
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Patent No. 6140470
GENERAL INFORMATION:
APPLICANT: Alan Garen
APPLICANT: Xiaohong Cai
                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 25, Application US/09240274 Patent No. 6255455
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                                      TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 293-7060
TELEFAX: (202) 293-7860
TELEX: 6491103
INFORMATION FOR SEQ ID NO: 35:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; OTHER INFORMATION: anti-Rh(D) US-09-240-274-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                86.3%;
llarity 85.2%;
Conservative
                                                                                                                                                                                                              86.3%;
llarity 91.1%;
Conservative
                                                                                             INFORMATION FOR SEQ ID NO: 3
SEQUENCE CHARACTERISTICS:
LENGTH: 120 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alan Garen
Xiaohong Cai
                                                                                                                                                                     peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: PRT ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 98; Conservation
                                                                                                                                                                                                                             Local Similarity
            FILING DATE: 0 CLASSIFICATION:
                                                                                                                                                                     ; MOLECULE TYPE:
US-07-942-245-35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 6
US-08-983-607-38
                                                                                                                                                                                                                                                                                                                                                                                                                 -240-274-25
                                                                                                                                                                                                                                          102;
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LENGTH: 126
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Best 1
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US-09-2
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QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
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Anti-
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Pred. No. 7.6e-47;
  Anti-Tumor Monoclonal
                                                                    Molecular Biophysics
try, Yale University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Technology
Y Technology Limited
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Homo sapiens (melanoma patient ORGANISM: immunized with autologous tumor continuous ISOLATE: peripheral blood lympho-INDIVIDUAL ISOLATE: cytes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     obtained
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DM414 scFv antibodies obtain fUSE5 fusion phage construct
                                                                                                                                                                                                                                           OPERATING SYSTEM: MS DOS
SOFTWARE: Word Processing
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/983,607
FILING DATE: April 27, 1998
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/IB96/01032
FILING DATE: June 28, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                   ZIP: 06520-8114

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" 1.44 Mb diskette
                                                                  ADDRESSEE: Department of Molecula ADDRESSEE: and Biochemistry, Yale STREET: 266 Whitney Avenue CITY: New Haven STATE: Connecticut COUNTRY: United States of America
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 167, Application US/09726219A
Patent No. 6806079
GENERAL INFORMATION:
APPLICANT: Cambridge Antibody Technol
APPLICANT: Medical Research Council
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OCR-679
                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Mary M. Krinsky
REGISTRATION NUMBER: 32423
REFERENCE/DOCKET NUMBER: OCR-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 203-773-9544
TELEFAX: 203-773-1183
INFORMATION FOR SEQ ID NO: 38:
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0
 Human A
bodies
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGINAL SOURCE:
ORGANISM: Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             123 residues
128 amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE:
DESCRIPTION:
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                                NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS
ADDRESSEE: Department
                                                                                                                                                                                                                              COMPUTER: IBM PC
OPERATING SYSTEM:
SOFTWARE: Word Pro
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US-08-211-202-141
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Matches
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US-08-211-202-141

Sequence 141, Application US/08211202

Batent No. 5565332

GENERAL INFORMATION:

APPLICANT: HOOGENBOOM, Hendricus Renerus Jacobus Matteus
APPLICANT: JESPERS, Laurent Stephane Anne Therese
APPLICANT: WINTER, Gregory Paul
TITLE OF INVENTION: Production of chimeric antibodies - a
TITLE OF INVENTION: combinatorial approach
NUMBER OF SEQUENCES: 144

CORRESPONDENCE ADDRESS:

AnnreSSEE: David W. Clough, Marshall O'Toole Gerstein Mur
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 115
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                                                                                                                                                                                                                                       of
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Pred. No. 2.3e-46;
; Mismatches 5;
                                                                                                                                                                                                                                      for Producing Members
APPLICANT: McCafferty, John
APPLICANT: Pope, Anthony
APPLICANT: Johnson, Kevin
APPLICANT: Johnson, Kevin
APPLICANT: Johnson, Kevin
APPLICANT: Jockson, Ronald
APPLICANT: Griffiths, Andrew
APPLICANT: Holliger, Kasper
APPLICANT: Holliger, Kasper
APPLICANT: Marks, James
APPLICANT: Marks, Jawes
APPLICANT: Marks, Javid
APPLICANT: Marks, Javid
APPLICANT: Marks, Javid
APPLICANT: Marks, Javid
APPLICANT: Marks, Jayo-10-19
PRIOR FILING DATE: 1990-10-19
PRIOR FILING DATE: 1990-10-19
PRIOR APPLICATION NUMBER: GB 9105444, 9
PRIOR FILING DATE: 1991-03-06
PRIOR APPLICATION NUMBER: US 07/971, 857
PRIOR APPLICATION NUMBER: US 07/971, 857
PRIOR APPLICATION NUMBER: US 08/484, 893
PRIOR FILING DATE: 1993-01-08
PRIOR APPLICATION NUMBER: US 08/484, 893
PRIOR FILING DATE: 1995-06-07
NUMBER OF SEQ ID NOS: 272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        85.4%;
illarity 89.4%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 0
FILING DATE: 1995-06-07
R OF SEQ ID NOS: 272
ARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   : 6300 Sears Chicago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Homo sapiens
US-09-726-219A-167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE:
STREET: 63
CITY: Chic
STATE: Ill
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          101;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               115
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                                                                           Version
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28111/31960
                                                                                                                                                                             APPLICATION NUMBER: GB 9120252.3
FILING DATE: 23-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9120377.8
FILING DATE: 25-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206372.6
                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/GB92/00883
FILING DATE: 15-MAY-1992
ATTORNEY/AGENT INFORMATION:
                                                                                                          APPLICATION NUMBER: US/08/211,202
FILING DATE: 23-SEP-1992
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                     FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GRO3/000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-08-478-039-96

US-08-478-039-96

Sequence 96, Application US/08478039

Patent No. 5681722

GENERAL INFORMATION:

APPLICANT: Newman, Roland A.

APPLICANT: Hanna, Nabil

APPLICANT: Raab, Ronald W.

TITLE OF INVENTION: Recombinant Ant

CORRESPONDENCES: 114

CORRESPONDENCE ADDRESS:

ADDRESSEE: BURNS, DOANE, SWECKER

CITY: Alexandria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SWECKER
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0,

CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 28
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              36,107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  85.2%;
ilarity 89.5%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           116 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IELEFAX: 312-474-630
TELEX: 25-3856
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 116 amir
                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: David W. Clough REGISTRATION NUMBER:
                                                                                                                                                          PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: VA
COUNTRY: USA
ZIP: 22313-1404
COMPUTER READABLE FO
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hes 102; Conser
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-09-920-137d-7

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CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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COUNTRY: USA
ZIP: 22313-1404

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

TARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 515.5; DB Pred. No. 6e-46; 1; Mismatches
             COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SWECKER & MATHIS
                                                                                                                                                                                APPLICATION NUMBER: US 07/912,292
FILING DATE: 10-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/856,281
FILING DATE: 23-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/735,064
FILING DATE: 25-JUL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Teskin Esq., Robin L.
REGISTRATION NUMBER: 35,030
                                                                                                                                                                                                                                                                                                                                                              012712-160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-476-349A-96
; Sequence 96, Application US/08476349A
; Patent No. 5750105
; GENERAL INFORMATION:
; APPLICANT: Newman, Roland A.
APPLICANT: Hanna, Nabil
; APPLICANT: Raab, Ronald W.
TITLE OF INVENTION: Recombinant Anti
; TITLE OF ENVENTION: Recombinant Anti
; TORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER 8
; STREET: 699 Prince St.
; CITY: Alexandria
                                                                 APPLICATION NUMBER: US/08/478,039 FILING DATE: 07-JUN-1995
                                                                                                                                     MBER: US 08/379,072
25-JAN-1995
                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 012
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-836-6620
TELEFAX: 703-836-2021
INFORMATION FOR SEQ ID NO: 96:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SJ2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SS: not relevant not relevant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 87.3%;
Matches 103; Conservative
disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                          128 amino acids
amino acid
                                                                                                                                      APPLICATION NUMBER: FILING DATE: 25-JAN-PRIOR APPLICATION DATA:
                                                                                                                        PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        peptide
Floppy
                                                                                                           435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: peptic
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
                                                                                                          CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino a
 TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH:
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CITY: A
MEDIUM
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ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDR---GISAGGNYYYYGMDV 115
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Sequence 6, Application US/09424840B

Patent No. 6790938

GENERAL INFORMATION:

APPLICANT: Berchtold, Peter

APPLICANT: Escher, Robert F. A.

TITLE OF INVENTION: ANTI-GPIIB/IIIA RECOMBINANT ANTIBODIES

FILE REFERENCE: 100564-09049

CURRENT APPLICATION NUMBER: US/09/424,840B

CURRENT FILING DATE: 1999-12-03

PRIOR FILING DATE: 1998-05-08

PRIOR FILING DATE: 1997-12-12

PRIOR FILING DATE: 1997-12-12

PRIOR FILING DATE: 1997-06-06

NUMBER OF SEQ ID NOS: 128

SOFTWARE: Patentin version 3.1

SEQ ID NO 6

LENGTH: 123
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                                                                           APPLICATION NUMBER: US 08/379,072
FILING DATE: 25-JAN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/912,292
FILING DATE: 10-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/856,281
FILING DATE: 23-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/735,064
FILING DATE: 25-JUL-1991
ATTORNEY/AGENT INFORMATION:
NAME: Teskin Esq., Robin L.
REGISTRATION NUMBER: 35,030
REFERENCE/DOCKET NUMBER: 35,030
REFERENCE/DOCKET NUMBER: 012712-161
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-836-6620
TELEFAX: 703-836-2021
                                                                                                                                                                                                                                                                                                                                                                      012712-161
   US/08/476,349A
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larity 87.3%;
Conservative
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                   07-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 128 amino acids
TYPE: amino acid
STRANDEDNESS: not releven
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        not relevant
                                                           PRIOR APPLICATION DATA:
APPLICATION NUMBER:
NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CHROMOSOME/SEGMENT:
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Best Local Similarity
Matches 103; Conser
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COUNTRY:

ZIP: 94105-1492

COMPUTER READABLE FORM:

WEDIUM TYPE: Floppy disk

WEDIUM TYPE: Floppy disk

IBM PC compatible

TO THE TYPE: Floppy disk

TO THE TYPE: Floppy disk

MEDIUM TYPE: Floppy disk

MEDIUM TYPE: Floppy disk

MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                       US-08-331-397B-46
; Sequence 46, Application US/08331397B
; Patent No. 5981726
; GENERAL INFORMATION:
; APPLICANT: Pastan, Ira
APPLICANT: Benhar, Itai
; TITLE OF INVENTION: Chimeric and Mut
; TITLE OF INVENTION: Specific Antiboo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/331,39
FILING DATE: 28-OCT-1994
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REGISTRATION NUMBER: 38,498
REFERENCE/DOCKET NUMBER: 01
TELECOMMUNICATION INFORMATION:
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One Market Plaza,
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ilarity 88.6%;
Conservative
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LNFORMATION FOR SEQ ID NO: 46
SEQUENCE CHARACTERISTICS:
TYDE
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California
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OTHER INFORMATION:

US-08-331-397B-46
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STRANDEDNESS:
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FEATURE:
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INFORMATION FOR
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Best Local S
Matches 101
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                                                                                           QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
                                                                                                                                       GSNKYY
                                              Gaps
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                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Antibody Fusion Proteins (as amended)
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                                                                                                                                                                                                           /note= "Human fetal immunoglobulin
56P1'CL Variable Heavy chain (V-H)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
7.3e-46;
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t Street
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                      ed. No. 7.30
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/767,331
FILING DATE: 30-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/596,289
FILING DATE: 12-OCT-1990
ATTORNEY/AGENT INFORMATION:
NAME: Hunter, Tom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/331,398A
FILING DATE: 28-OCT-1994
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE: ...
COUNTRY: USA
ZIP: 94105-1492
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
AMPUTER: IBM PC compatible
TYPE: IBM PC compatible
TYPE: TEM 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Single Chain B3
and Their Uses
68
                                                                                                                                                                                                                                                                                                                                             Sequence 46, Application US/08331398A Patent No. 5608039 GENERAL INFORMATION:
                      Pred.
                                       4.
                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Pastan, Ira
APPLICANT: Willingham, Mark
APPLICANT: FitzGerald, David
APPLICANT: Brinkmann, Ulrich
APPLICANT: Pai, Lee
TITLE OF INVENTION: Single Cha
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            38,498
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TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 46
                      87.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 38
REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CHARACTERISTICS:
                                           Conservative
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LOCATION: 1..119
OTHER INFORMATION:
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES:
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                      Similarity
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                                        101;
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Best Local S
Matches 101
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QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
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                                                112
                                                                                  110
                                                                                                                                                                                                                                             and Mutationally Stabilized Tumor-Antibody Fragments, Fusion Proteins,
                                              ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDRGISAGGNYY--YYG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDRGISAGGNYY--YYG
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, Variable Heavy chain (V-H)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                          Townsend and Crew
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Version #1.30
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1e-45;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  015280-126120US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/767,331
FILING DATE: 30-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/596,289
FILING DATE: 12-OCT-1990
ATTORNEY/AGENT INFORMATION:
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56P1'CL Variable Heavy chain (V-H)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4; Indels
                                                                                                                                                                                                                                        Tumor-Specific Antibody Fragments,
Fusion Proteins, and Uses Thereof
68
                                                                                           GENERAL INFORMATION:
APPLICANT: Pastan, Ira
APPLICANT: Willingham, Mark
APPLICANT: Willingham, Mark
APPLICANT: Willingham, Mark
APPLICANT: Willingham, Ulrich
APPLICANT: Pai, Lee
TITLE OF INVENTION: Tumor-Specific Antibody Fragmente
CONFUTER: Two Embarcadero Center, Bighth Floor
STREET: Two Embarcadero
CONFUTER: IBM PC compatible
OPBRATING SYSTEM: PC-DSO/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CUMPUTER: 103-DEC-1996
SOFTWARE: Patentin Release #1.0, Version #1.30
SOFTWARE: Patentin NUMBER: US 08/331,398
FILING DATE: 20-CCT-1994
FILING DATE: 20-CCT-1994
FILING DATE: 10-CCT-1997
APPLICATION NUMBER: US 07/56,289
FILING DATE: 12-CCT-1997
APPLICATION NUMBER: US 07/596,289
FILING DATE: 12-CCT-1997
ATPORNEY/ARIA INFORMATION:
NAME: Weber, Ellen L.
SEQUENCE CHARACTERISTICS:
LENGTH: 119 amino acide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 88.6%; Pred. No. 1e-45;
Matches 101; Conservative 3; Mismatches
                                            Sequence 46, Application US/08759804A
Patent No. 5990296
GENERAL INFORMATION:
APPLICANT: Pastan, Ira
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amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: Protein LOCATION: 1..119
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OTHER INFORMATION:
OTHER INFORMATION:
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RESULT 14
US-08-759-804A-46
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                                                                                                                            TUMOR-SPECIFIC ANTIBODY, FUSION PROTEINS, AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDRGISAGGNYY--YYG
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56Pl'CL VH region"
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Plaza
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Fower, One Market
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         32,762
R: 15280-126-1-3
                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/767,331
FILING DATE: 30-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/596,289
FILING DATE: 12-OCT-1990
                                                                                                                                                                                                                                                                                                                                     US/09/227,693
                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
                                                                                                                                                                                                                                                                                                                                                                            968,188/80
                        5, Application US/09227693 6287562
                                                                                                                                                                                        San Francisco
California
                                                                                                                            HUMANIZED FRAGMENTS,
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(415) 543-9600
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                                                            N, Ira
R, Itai
N, Eduardo
Sun-Hee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,7
REFERENCE/DOCKET NUMBER:
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88.6%;
                                                                                                                                                                                                                                        ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                Townsend and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (415) 543-5043 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   amino acids
                                                                                                  APPLICANT: JUNG, Sun-Hee APPLICANT: LEE, Byungkook TITLE OF INVENTION: HUMAN TITLE OF INVENTION: FRAGM
                                                                                                                                                      50
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                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA
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FILING DATE:
PRIOR APPLICATION DATA: APPLICATION NUMBER:
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                                                                                                                                                     NUMBER OF SEQUENCES: 5 CORRESPONDENCE ADDRESS:
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           NAME/KEY: Protein
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OTHER INFORMATION:
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STRANDEDNESS: si
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                                                                                        PADLAN,
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CITY: S
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Best Local
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RESULT
US-09-2
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                                                                                                                                                                                                                     David W. Clough, Marshall O'Toole Gerstein Murray
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                  APPLICANT: HOOGENBOOM, Hendricus Renerus Jacobus Matteus APPLICANT: BAIER, Michael APPLICANT: JESPERS, Laurent Stephane Anne Therese APPLICANT: WINTER, Gregory Paul TITLE OF INVENTION: Production of chimeric antibodies - TITLE OF INVENTION: combinatorial approach NUMBER OF SEQUENCES: 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length
                                                                                                                                                                                                                                                     STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
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                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/211,202

FILING DATE: 23-SEP-1992
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Pred. No. 1e-45;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: GB 9206372.6
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/00883
FILING DATE: 15-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/31960
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
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R: 28111/31960
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206372.6
FILING DATE: 24-MAR-1992
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                  118, Application US/08211202 . 5565332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9120252.
FILING DATE: 23-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9120377.
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100.0%;
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INFORMATION FOR SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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                Sequence 118, Applica
Patent No. 5565332
GENERAL INFORMATION:
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Best Local Similarity
Matches 98; Conser
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CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                 USA
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; MOLECULE TYPE:
US-08-211-202-118
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ADDRESSEE:
US-08-211-202-118
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RESULT

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Sequence 80, Application US/09315926A

Sequence 80, Application US/09315926A

Patent No. 6498027

GENERAL INFORMATION:

APPLICANT: Be van, Helmuth

APPLICANT: Havenga, Menzo

APPLICANT: Verlinden, Stefan

TITLE OF INVENTION: TARGETED DELIVERY THROUGH A CATIONIC AMINO ACID TRANSPORTER

FILE REFERENCE: 2183-4080US

CURRENT APPLICATION NUMBER: US/09/315,926A

CURRENT FILING DATE: 1999-05-20

PRIOR APPLICATION NUMBER: EP 99201593.3

PRIOR APPLICATION NUMBER: EP 98201693.3

PRIOR FILING DATE: 1998-05-20

NUMBER OF SEQ ID NOS: 81
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Pred. No. 3.4e-45;
1; Mismatches 5
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                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY: misc feature
OTHER INFORMATION: Description of Artificial
NAME/KEY: PEPTIDE
LOCATION: (1)..(248)
OTHER INFORMATION: /note="hCAT1 amino acid se
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US/09/079,029
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APPLICANT: Adams, Camilia W.
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Chuntharapai, Anan
APPLICANT: Kim, Kyung J.
TITLE OF INVENTION: Apo-2 Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Apo-2 Receptor: 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  South San Francisco
                                                                                                                                                                                                                                                                                    Patentin version 3.0
                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     84.1%;
89.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
NAME: Marschang, Diane L
REGISTRATION NUMBER: 35,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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APPLICATION NUMBER: U
FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inc
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CORRESPONDENCE ADDRESS
ADDRESSEE: Genentecl
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 101; Conser
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-09-315-926A-80
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SEQ ID NO 80
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CITY: So
STATE: C
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                                                                                                                                                               Length 310;
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APPLICANT: Pack, Peter
APPLICANT: Ilag, Vic
APPLICANT: Ge, Liming
APPLICANT: Moroney, Simon
APPLICANT: Plueckthun, Andreas
TITLE OF INVENTION: Protein/(Poly)peptide libraries
NUMBER OF SEQUENCES: 373
CORRESPONDENCE ADDRESS:
ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neav
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 10UZ1
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EI
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/025,769B
FILING DATE: 18-FEB-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95 11 3021.0
FILING DATE: 18-AUG-1995
ATTORNEY/AGENT INFORMATION:
NAME: James F. Haley, Jr., Esq.
REGISTRATION NUMBER: 27,794
REGISTRATION INFORMATION:
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                               ; 9
                                                                                                                                                             Score 511; DB 3;
Pred. No. 5e-45;
l; Mismatches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             E: James F. Haley, Jr., Esq. 1251 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                                                              US-09-025-769B-24
; Sequence 24, Application US/09025769B
; Patent No. 6300064
; GENERAL INFORMATION:
                                                                                                                                                                                               1;
TELECOMMUNICATION INFORMATION
TELEPHONE: 650/225-5416
TELEFAX: 650/952-9881
FORMATION FOR SEQ ID NO: 11:
                                                                                                                                                               84.0%;
ilarity 87.0%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           117 amino acids
amino acid
                                                                               310 amino acids
Amino Acid
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TELEFAX: (212)596-9090
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein
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Best Local Similarity
....hes 98; Conserva
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: USA
                                                                                                                                                             Query Matcn
Best Local Similarity
Watches 100; Conser
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COMPUTER READABLE
MEDIUM TYPE: F1
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                                                                                                                   ; TOPOLOGY:
US-09-079-029-11
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APPLICANT:
APPLICANT:
APPLICANT:
                                 TELEFAX:
INFORMATION F
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                                                                                                              TOPOLOGY
                                                                                 LENGTH:
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STATE:
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               QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
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                                                        ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDRGISAGGNYYYYG
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                                                                                                                                                                                                                                               Ilag, Vic

Ge, Liming

Moroney, Simon

Plueckthun, Andreas

TITLE OF INVENTION: Protein/(Poly)peptide libraries

NUMBER OF SEQUENCES: 373

CORRESPONDENCE ADDRESS:

ADDRESSEE: Colin G. Sandercock, Esq. c/o Heller E

White & McAuliffe

STREET: 1666 K Street, N.W., Suite 300

CITY: Washington

STATE: D.C.

COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                             Heller
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Versi
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/490,070A
FILING DATE: 24-Jan-2000
PRIOR APPLICATION NUMBER: EP 95 11 3021.0
FILING DATE: 18-AUG-1995
ATTORNEY/AGENT INFORMATION:
NAME: Colin G. Sandercock, Esq.
REGISTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 37629-0005
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFPHONE: (202) 912-2020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 510; DB 4
Pred. No. 2e-45;
; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ) MOLECULE TYPE: protein
) SEQUENCE DESCRIPTION: SEQ ID NO: 24:
US-09-490-070A-24
                                                                                                                                                                   Sequence 24, Application US/09490070A
Patent No. 6696248
GENERAL INFORMATION:
APPLICANT: Knappik, Achim
Pack, Peter
Ilag, Vic
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SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino ac
TYPE: amino acid
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Similarity 87.5%;
98; Conservative
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                                                                                                                                                      -09-490-070A-24
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Best Local S
Matches 98
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Conservative

Length 117

3;

Score 510; DB 3 Pred. No. 2e-45; Mismatches

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RESULT
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                                                                                                   Ge, Liming
Moroney, Simon
Plueckthun, Andreas
TITLE OF INVENTION: Protein/(Poly)peptide libraries
NUMBER OF SEQUENCES: 373
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                          Version #1.30
                                                                                                                                                                                                     Fish
                                                                                                                                                                                                     0/p
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                                                                                                                                                                                                                                                                      COUNTER READABLE FORM:

AEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Vers
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/490,153
FILING DATE: 24-Jan-2000
PRIOR APPLICATION NUMBER: US/09/025,769B
FILING DATE: 18-FEB-1998
APPLICATION NUMBER: EP 95 11 3021.0
FILING DATE: 18-AUG-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                   STREET: 1251 Avenue of the Americas CITY: New York COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             h 83.9%; Score 510; DB 4 Similarity 87.5%; Pred. No. 2e-45; 98; Conservative 5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 3021.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: James F. Haley, Jr., Esq.
REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: MORPHO/5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   24:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 22
US-09-490-324-24
; Sequence 24, Application US/09490324
; Patent No. 6828422
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
Pack, Peter
; Ilag, Vic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)596-9000
TELEFAX: (212)596-9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ge, Liming
Moroney, Simon
Plueckthun, Andreas
             Sequence 24, Application US/09490153
Patent No. 6706484
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 117 amino acids TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <Unknown>
                                                         APPLICANT: Knappik, Achim
Pack, Peter
Ilag, Vic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTI
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US-09-490-153-24
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Matches
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US-09-4
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Patent No. 6096878

GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Matsuda, Fumihiko
TITLE OF INVENTION: SEGMENTS AND DNA FRAGMENTS CONTAINING THE SAME
TITLE OF SEQUENCES: 145
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         112
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                                                          Neave
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Protein/(Poly)peptide libraries: 373
                                                                                                                                                                                                                                  Version #1.30
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                                                         Jr., Esq.
                                                                                                                     COUNTRY: USA
ZIP: 10021
COUNTER: 10021
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Ver
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/490,324
FILING DATE: 24-Jan-2000
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/025,769
FILING DATE: 18-FEB-1998
APPLICATION NUMBER: EP 95 11 3021.0
FILING DATE: 18-AUG-1995
ATTORNEY/AGENT INFORMATION:
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Pred. No. 2e-4
5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                      NAME: James F. Haley, Jr., Esq.
REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: MORPHO/
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)596-9090
TELEFAX: (212)596-9090
INFORMATION FOR SEQ ID NO: 24:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;
TOPOLOGY: linear
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MOLECULE TYPE: protein
;
SEQUENCE DESCRIPTION: SEQ ID NO: 24:
US-09-490-324-24
                                                        Haley,
of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4: 117 amino acids
amino acid
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   TITLE OF INVENTION: ProteinumBER OF SEQUENCES: 373
CORRESPONDENCE ADDRESS:
ADDRESSEE: James F. H
STREET: 1251 Avenue o
CITY: New York
STATE: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CHARACTERISTICS
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Comment
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Best Local
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TYPE:
TOPOLOGY: LA.
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CITY: Ch
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Sequence 16, Application US/09424840B

Patent No. 6790938

GENERAL INFORMATION:

APPLICANT: Berchtold, Peter

APPLICANT: Escher, Robert F. A.

TITLE OF INVENTION: ANTI-GPIIB/IIIA RECOMBINANT ANTIBODIES

FILE REFERENCE: 100564-09049

CURRENT APPLICATION NUMBER: US/09/424,840B

CURRENT FILING DATE: 1999-12-03

PRIOR FILING DATE: 1998-05-08

PRIOR FILING DATE: 1997-12-12

PRIOR FILING DATE: 1997-12-12

PRIOR FILING DATE: 1997-06-06

MANAGED OF SEC IT NOTE 17:
                                                                                                                                                                                                                                                                                                    Length 117;
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                                                                                                                                                                                                                                                                                                                                                                                                      Score 508; DB 3;
Pred. No. 3.2e-45;
); Mismatches 1
SOFTWARE: FastSEQ for Windows Version 2.0 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/545,809A
FILING DATE: 27-MAR-1996
PRIOR APPLICATION DATA:
                                                                                                                29,066
R: 06501/004001
                                                            APPLICATION NUMBER: PCT/JP93/00603
FILING DATE: 10-MAY-1993
ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 06501/00400
TELEPHONE: 617-542-5070
TELEPHONE: 617-542-8906
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Similarity 84.5%;
98; Conservative
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Best Local Similarity 99.0%;
Matches 97; Conservative
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                                                                                                                                                                                                                       amino acid
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TELEX: 200154
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                          , MOLECULE TYPE: protein US-08-545-809A-115
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US-09-424-840B-16
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LENGTH: 124
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Best Local S
Matches 98
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                                                                                                                                                                                                                                                   South Wacker Drive
                                                                                                        Laurent Stephane Anne Therese
                                                                                                                                                                                                                                                                                                                                                                                                              Version #1.25
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APPLICANT: HOOGENBOOM, Hendricus Renerus Jacol
APPLICANT: BAIER, Michael
APPLICANT: JESPERS, Laurent Stephane Anne Ther
APPLICANT: WINTER, Gregory Paul
TITLE OF INVENTION: Production of chimeric an
TITLE OF INVENTION: combinatorial approach
NUMBER OF SEQUENCES: 144
CORRESPONDENCE ADDRESS:
ADDRESSEE: Borid W. Cl-
STREFT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 501; DB 1;
Pred. No. 1.8e-44
; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206372.6
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/00883
FILING DATE: 15-MAY-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         28111/31960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: GB 9120252.3
FILING DATE: 23-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9120377.8
FILING DATE: 25-SEP-1991
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/211,202
FILING DATE: 23-SEP-1992
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                  Sequence 135, Application US/08211202
Patent No. 5565332
                                                                                                                                                                                                                            SEE: Borun
: 6300 Sears Tower, 233
Chicago
Illinois
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4,
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TELEPHONE: 312-474-6300
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89.1%;
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Floppy disk
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NAME: David W. Clough
REGISTRATION NUMBER: 36,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120 amino acid
ino acid
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                                                                                                                                                                                                                                                                                                COUNTRY: USA
ZIP: 60606-6402
COMPUTER READABLE FO
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98; Conserv
                                                     GENERAL INFORMATION:
APPLICANT: HOOGEN
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GenCore version (c) 1993 - 2005
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Search time 121.188 Second (without alignments) 367.011 Million cell upda 07:35:01 2005, 16, June .. 0

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US-09-920-137D-7 608

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2105692 hits satisfying chosen parameters: of Total number

residues

386760381

2105692 segs,

Searched:

Minimum

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Post-processing:

Minimum Match 0% Maximum Match 100% Listing first 100 summaries

Geneseq\_16Dec04:\*
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21	4	φ.		ω	ADP22222	222
22	45.	φ.	125	ω	ADP22300	2230
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24	45.	<u>.</u>		ω	ADP22312	2231
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Mouse hea Anti-huma Anti-huma Anti-huma Anti-huma Anti-huma Human mAb The heavy Human ant Anti-huma Human ant Anti-EPO-Human ant Human ant

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                                                                                                                                                                                        Tumour necrosis factor alpha; TNF; antibody; heavy chain; CDR; complementarity determining region; antirheumatic; antiarthritic; antiulcer; antiasthmatic; antiallergic; antiinflammatory; antisickling; antidiabetic; antiarteriosclerotic; antiatherosclerotic; vasotropic; antianginal; cardiant; antibacterial; virucide; fungicide; antileprotic; protozoacide; cytostatic; neuroprotective; antiparkinsonian; nootropic; human; diagnosis; therapy.
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Adp22160
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                                            ALIGNMENTS
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treating sickle cell anemia, diabetes, a
angina pectoris, myocardial infarction,
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2000US-0236826P.
2001US-00920137.
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29-SEP-2000;
01-AUG-2001;
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                                                                                                                                                                    Anti-tumour
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                                                                                                  AAM51164
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                                                                                       AAM51164
99
                                                                             RESULT
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comprises at least a portion of an immunoglobulin molecule, especially chain and/or light chain variable regions given in the present sequence and in AAM51165, or either all of the CDRs of the heavy chain sequence and in AAM51165, or either all of the CDRs of the heavy chain (see AAM51158-60) or all of the CDRs of the light chain (see AAM51161-63). The antibody may inhibit TNF-induced cell adhesion molecules, inhibit TNF binding to receptor, or provide Arthritic Index improvement in a mouse model. It is useful for diagnosing or treating a TNF related condition in a cell, tissue, organ or animal (claimed) such as rheumatoid arthritis, gastric ulcer, asthma, allergic rhinitis, Crohn's pathology, sickle cell anaemia, diabetess, a cardiovascular disease such as a pathorosis, atherosclerosis, restenosis, angina pectoris or arteriosclerosis, atherosclerosis, restenosis, angina pectoris or viral, and fungal infections, pneumonia, leprosy and malaria, a malignant disease such as leukaemia, chronic myelocytic leukaemia, Burkitt's lymphoma and multiple myeloma, or a neurological disease such as multiple sclerosis, Parkinson's disease, spinal ataxia, Alzheimer's disease and creutzfeldt-Jakob disease, spinal ataxia, Alzheimer's disease and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sase; anaemia;
neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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  The anti-TNF antibody
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDRGISAGGNYYYYGMDV
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                                                                                                                                                                                                                                                                                                                                                Length 115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mimetic; CDR mimetibody; gene therapy; transgenic; immune; cardiovascular; infectious; malignant; neurologic disease; immunomodulator; cardiant; antimicrobial; cytostatic; neuro
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                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 608; DB 5; 100.0%; Pred. No. 2.5e-48
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  of making and using them.
                                                                                                                                                                                                                                                                                                                                                                   red. No. 2.9
Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention relates to novel
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    standard; protein;
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                                                                                                                                                                                                                                                                                                                                                                                  Conservative
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  and methods
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                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CENTOCOR
                                                                                                                                                                                                                                                                                                                    Sequence 115 AA;
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portions or variants thereof. Specifically, it refers to an antibody
fragment where a protein has been inserted into, or replaces a portion
of, one or more CDR regions, such that each CDR mimetibody comprises at
least one portion of a heavy chain or light chain variable region, which
itself comprises at least one human framework region and at least one
itself comprises at least one human framework region and at least one
itself comprises at least one human framework region and at least one
itself comprises at least one human framework region and at least one
itself comprises at least one human framework region and the least one
itself comprises to the CDR mimetibody is useful for
that can be useful in gene therapy and the generation of transgenic
plants and animals. Furthermore, the CDR mimetibody is useful for
preparing compositions for modulating, treating or reducing the symptoms
of immune, cardiovascular, infectious, malignant and/ or neurologic
diseases, as well as anaemia. Accordingly, they exhibit immunomodulator,
cardiant, antimicrobial, cytostatic and neuroprotective activities. This
polypeptide segmence is an errethroniating to the control of the cardiant.
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ion, which
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                                                                                                                                                                                                                                                                                                                                              or reducting and/ or neurologic exhibit immunomodulator,
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Sequence 115 AA;

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                                                       ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDRGISAGGNYYYYGMD
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Length 115;
              Indels
              5
; DB 7;
1.8e-45;
Score 577; DB Pred. No. 1.8e-0; Mismatches
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94.9%;
illarity 95.7%;
Conservative
       Local Similarity
             110;
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Query Match
              Matches
        Best
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mimetic; CDR mimetibody; gene therapy; transgenic; immune; cardiovascular; infectious; malignant; neurologic disease; anae immunomodulator; cardiant; antimicrobial; cytostatic; neuroprot Erythropoietin heavy chain mimetibody ADJ73540 standard; protein; 115 entry) (first 06-MAY-2004 ADJ73540; RESULT ADJ7354 

WO2003084477-A2 erythropoietin. Synthetic

16-OCT-2003

24-MAR-2003; 2003WO-US009139

29-MAR-2002; 2002US-0368791P

(CENZ ) CENTOCOR INC

٦ ; Ghrayeb BJ, Scallon Ω M Knight GA, Heavner

WPI; 2003-804237/75

gion, chain re variable region comprising a portion of a heavy or light c variable region comprising human framework or ligand binding useful for preparing a composition for treating e.g., immune, cardiovascular or neurologic disease

2; SEQ ID NO 996; 97pp; English. Example

cibody portion prises at cific portions or variants thereof. Specifically, it refers to an ant fragment where a protein has been inserted into, or replaces a of, one or more CDR regions, such that each CDR mimetibody comp novel mammalian CDR mimetibodies, relates to

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itself comprises at least one human framework region and at least one ligand binding region (LBR). The present invention describes human mimetibodies, including modified immunoglobulins and cleavage products that can be useful in gene therapy and the generation of transgenic plants and animals. Furthermore, the CDR mimetibody is useful for preparing compositions for modulating, treating or reducing the symptoms of immune, cardiovascular, infectious, malignant and/or neurologic diseases, as well as anaemia. Accordingly, they exhibit immunomodulator, cardiant, antimicrobial, cytostatic and neuroprotective activities. This polypeptide sequence is an erythropoietin heavy chain mimetibody of the invention.
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110; Conser
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chain mimetibody SegID 991 entry) Erythropoietin heavy (first 06-MAY-2004 ADJ73535;

ADJ73535 standard; protein; 133

SULT

mimetic; CDR mimetibody; gene therapy; transgenic; immune; cardiovascular; infectious; malignant; neurologic disease; anaemia; immunomodulator; cardiant; antimicrobial; cytostatic; neuroprotective; erythropoietin.

anaemia

SeqID 996

WO2003084477-A2

16-OCT-2003

2003WO-US009139 24-MAR-2003; 2002US-0368791P 29-MAR-2002;

CENTOCOR INC (CENZ)

b Ghrayeb Scallon BJ, Knight DM, GA, Heavner

WPI; 2003-804237/75

variable region comprising human framework or ligand binding region, useful for preparing a composition for treating e.g., immune, cardiovascular or neurologic disease. 

2; SEQ ID NO 991; 97pp; English. Example

portions or variants thereof. Specifically, it refers to an antibody fragment where a protein has been inserted into, or replaces a portion of, one or more CDR regions, such that each CDR mimetibody comprises at least one portion of a heavy chain or light chain variable region, which itself comprises at least one human framework region and at least one ligand binding region (LBR). The present invention describes human specific This invention relates to novel mammalian CDR mimetibodies,

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WO200212502-A2

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           that can be useful in gene therapy and the generation of transgenic plants and animals. Furthermore, the CDR mimetibody is useful for preparing compositions for modulating, treating or reducing the symptoms of immune, cardiovascular, infectious, malignant and/ or neurologic diseases, as well as anaemia. Accordingly, they exhibit immunomodulator, cardiant, antimicrobial, cytostatic and neuroprotective activities. This polypeptide sequence is an erythropoietin heavy chain mimetibody of the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tumour necrosis factor alpha; TNF; antibody; heavy chain; CDR; complementarity determining region; antirheumatic; antiarthritic; antiulcer; antiasthmatic; antiallergic; antiinflammatory; antisickling; antidiabetic; antiarteriosclerotic; antiatherosclerotic; vasotropic; antianginal; cardiant; antibacterial; virucide; fungicide; antileprotic; protozoacide; cytostatic; neuroprotective; antiparkinsonian; nootropic; human; diagnosis; therapy; TNV15; monoclonal antibody; mAb.
 products
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     may
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                                                                                                                                                                                                                1. .19
/label= Signal_peptide
/note= "amino acids 1-7 are PCR primer-encoded
differ from the native sequence"
                                                                                                                                                                         18;
  including modified immunoglobulins and cleavage
                                                                                                                                                                                                 QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVI
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                                                                                                                                                             6e-45;
                                                                                                                                                Score 572; DB Pred. No. 6e-4
0; Mismatches
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/label= FR3
| 118, 125
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/label= FR2
                                                                                                                                                 94.1%;
84.2%;
                                                                                                                                                                                                                                                                                                                                                                                      standard; protein;
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/label=
50
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112; Conserv
                                                                                                                          Sequence 133 AA;
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  mimetibodies,
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                                                                                                 invention.
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                                                                                                                                                 Query Match
Best Local
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The present sequence is that of the heavy chain variable region of antitumour necrosis factor (TNF) human recombinant monoclonal antibody (mAb) running as 10 february and 10 february february and 10 february february and 10 february febr
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                                                                                                                                                                                                                                                                                                                                         necrosis factor antibody, usefules, atherosclerosis, restenosis,
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Pred. No. 7.4e-45;
1; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                        Novel isolated mammalian anti-tumor necrosis factreating sickle cell anemia, diabetes, atherosciangina pectoris, myocardial infarction, leprosy
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                                                                                                                                                                                                                                            Heavner
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                                                                                                                     07-AUG-2000; 2000US-0223360P
29-SEP-2000; 2000US-0236826P
01-AUG-2001; 2001US-00920137
                                                                               2001WO-US024785
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94.8%;
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                                                                                                                                                                                                                                           Giles-Komar J,
                                                                            07-AUG-2001;
                                         14-FEB-2002
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Best Local S
Matches 110
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ody (mAb)
                                                                                                                               leprotic;
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                                                                                              complementarity determining region; antirheumatic; antiarthritic; antiulcer; antiasthmatic; antiallergic; antiinflammatory; antisickling; antidiabetic; antiartherosclerotic; vasotropic; antidanginal; cardiant; antibacterial; virucide; fungicide; antileprotic protozoacide; cytostatic; neuroprotective; antiparkinsonian; nootropic; human; diagnosis; therapy; TNV14; monoclonal antibody; mAb.
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                                                                                                                                                                                                                                 and
                                                                                      chain; CDR;
antiarthriti
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treating sickle cell anemia, diabetes, atherosclerosis, resteno
angina pectoris, myocardial infarction, leprosy.
                                                                                                                                                                                                                                 are PCR primer-encoded
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                                                                  region.
                                                                                       heavy
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                                                                 chain variable
                                                                                                                                                                                                                   /label= Signal peptide
/note= "amino acids 1-7 are PCR
differ from the native sequence"
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                                                                                    TNF; antibody;
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                                                                heavy
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 146
                                                                                      alpha;
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2000US-0236826P.
2001US-00920137.
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                                                                                                                                                                                                                                                                                                                     55. .68
/label= FR2
                                                                TNV14
 protein;
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/label= FR1
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label= cr
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/label= F
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55. .68
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/label=
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/label=
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                                           (first
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                                                                                                                                                                                                                                                       20.
standard;
                                                                 recombinant
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                                                                                      Tumour necrosis
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                                                                                                                                                                           Homo sapiens.
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                                           10-JUN-2002
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AAM51168
                      AAM51168
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                                                                                                                                                                                                          Peptide
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invention provides isolated human, primate, rodent, mammalian, chimeric, humanised and/or complementarity determining region (CDR)-grafted antiTWF antibodies, immunoglobulins, cleavage products and other specified portions and variants, as well as anti-TWF antibody compositions, encoding or complementary nucleic acids, vectors, host cells, compositions, formulations, devices, transgenic animals, transgenic plants, and methods of making and using them. The anti-TWF antibody comprises at least a portion of an immunoglobulin molecule, especially the heavy chain and/or light chain variable regions given in the present sequence and in AAMS1165, or either all of the CDRs of the heavy chain (see AAMS1165, or all of the CDRs of the light chain (see AAMS1161-CG and inhibit TWF binding to receptor, or provide Arthritic Index improvement in a mouse model. They are useful for diagnosing or treating a TWF related condition in a cell, tissue, organ or animal (claimed) such as trentated condition in a cell, tissue, organ or animal (claimed) such as pathology, sickle cell anaemia, diabetes, a cardiovascular disease such as arteriosclerosis, atherosclerosis, acsthma, allergic rhinitis, Crohn's pathology, sickle cell anaemia, diabetes, a cardiovascular disease such as leukaemia, chronic myelocytic leukaemia, a malignant disease such as leukaemia, chronic myelocytic leukaemia, and multiple myeloma, or a neurological disease such as multiple myeloma, or a neurological disease and sa fulliple sylenaese, spinal ataxia, Alzheimer's disease and creutzfeldt-Jakob disease, spinal ataxia, Alzheimer's disease and 9 79 Tumour necrosis factor alpha; TNF; antibody; heavy chain; CDR; complementarity determining region; antirheumatic; antiarthritic; antiulcer; antiasthmatic; antiallergic; antiinflammatory; antisickling; antidiabetic; antiarteriosclerotic; antiatherosclerotic; vasotropic; antianginal; cardiant; antibacterial; virucide; fungicide; antileprotic; protozoacide; cytostatic; neuroprotective; antiparkinsonian; nootropic; human; diagnosis; therapy; TNV148; monoclonal antibody; mAb. and may QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY 115 ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDRGISAGGN-YYYYGMDV Location/Qualifiers
1. 19
/label= Signal peptide
/note= "amino acids 1-7 are PCR primer-encoded differ from the native sequence" 1; Length 146; Human recombinant mAb TNV148(B) heavy chain variable region. Indels Score 569.5; DB 5; Pred. No. 1.1e-44; 2; Mismatches 3; 'label= Mature\_protein standard; protein; 146 AA 5 CDR1 93.7%; entry) .146 Conservative 50. .54 /label= 55. .68 31. .49 /label= (first l Similarity 110; Conser Ä 146 Homo sapiens Synthetic. 10-JUN-2002 61 AAM51171 Seguence 20 80 H Query Match Key Peptide Local Protein Region Region Matches RESULT AAM511 88888888888888888888888888888888888 d ò ਨੇ

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The present sequence is that of the heavy chain variable region of antitumour necrosis factor (TNF) human recombinant monoclonal antibody (mAb) TNV148(B). TNV148(B) was produced by site-directed mutagenesis of TNV148 (see AAM51170), replacing residue Pro-94 with a germline Ser TNV148 was 1 of 8 human mAbs produced from a GenTNV fusion using spleen cells from a hybrid mouse containing human variable and constant region antibody transgenes that was immunised with human TNF alpha. The human mAbs bound immobilised human TNF alpha with high avidity and had a totally human 10g1, kappa isotype. They showed relatedness to each other and to the human mean indicated human, primate, rodent, mammalian, chimeric, humanised and/or complementarity determining region (CDR)-grafted anti-TNF antibodies, immunoglobulins, cleavage produces and other specified portions and variants, as well as anti-TNF antibody compositions, formulations, devices, transgenic animals, transgenic splants, and methods of making and using them. The anti-TNF antibody compositions, formulations of making and using the capions given in the present sequence and in AAM51165, or either all of the CDRs of the heavy chain (see AAM51186-60) or all of the CDRs of the light chain (see AAM51161-61). The antibodies may inhibit TNF-induced cell adhesion molecules, inhibit TNF phinding to receptor, or provide Arthritic Index improvement in a mouse model. They are useful for diagnosing or treating a TNF related condition in a cell, tissue, organ or animal (claimed) such as pathology, sickle cell annemia, diabetes, a cardiovascular disease such as arteriosclerosis, atherosclerosis, restenosis, and main an all ideations and an animal claimes of the my proverse in a cell such as bacteriosclerosis, and minecious disease in a cell such as arteriosclerosis.
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ease and
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nosis,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel isolated mammalian anti-tumor necrosis factor antibody, us
treating sickle cell anemia, diabetes, atherosclerosis, restenos
angina pectoris, myocardial infarction, leprosy.
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2000US-0236826P.
2001US-00920137.
                                                                   CDR2
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/label= J6
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/label= CI
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/label=
94
label=
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29-SEP-2000;
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                                                                                                   Region
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                                                                                                                                                                                                                                                               Tumour necrosis factor alpha; TNF; antibody; heavy chain; CDR; complementarity determining region; antirheumatic; antiarthritic; antiulcer; antiasthmatic; antiallergic; antiinflammatory; antisickling; antidiabetic; antiarteriosclerotic; antiatherosclerotic; vasotropic; antianginal; cardiant; antibacterial; virucide; fungicide; antileprotic; protozoacide; cytostatic; neuroprotective; antiparkinsonian; nootropic; human; diagnosis; therapy; TNV148; monoclonal antibody; mAb.
                                                                                                                                                                                                                                                                                                                                                                                                       1-7 are PCR primer-encoded and may ive sequence"
                                                            QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
                                                                         QVQLVESGGGVVQPGRSLRLSCAASGFIFSSYAMHWVRQAPGNGLEWVAFMSYDGSNKKY
                                                                                                       115
                                         Gaps
                                                                                                       61 ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDRGISAGGN-YYYYGMDV
                                                                                                                  ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDRGIAAGGNYYYYYGMDV
                                         1;
                    Length 146;
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                 Score 566.5; DB 5
Pred. No. 2.1e-44;
; Mismatches 4
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/label= Signal peptide
/note= "amino acids 1-7
differ from the native
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/label= Mature_protein
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2000US-0236826P
2001US-00920137
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/label= CDR3
                  93.2%;
94.0%;
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/label= J6
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/label=
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                              Similarity
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Sequence 146 AA;
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29-SEP-2000;
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                                        109;
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                    Query Match
                              Local
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                                                                                                                                                                                                                                                                                                                                                                                   Peptide
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                                                                                                                                                                                                                                              Human
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AAM5117
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Compositions, formulations, devices, transgenic animals, transgenic plants, and methods of making and using them. The anti-TNF antibody compositions, formulations, devices, transgenic animals, transgenic plants, and methods of making and using them. The antibody chain and/or light chain variable regions given in the present sequence and in AAM51165, or either all of the CDRs of the heavy chain (see AAM51161-63). The antibodies may inhibit TNF-induced cell adhesion molecules, inhibit TNF binding to receptor, or provide Arthritic Index improvement in a mouse model. They are useful for diagnosing or treating a TNF related condition in a cell, tissue, organ or animal (claimed) such as rheumatoid arthritis, gastric ulcer, asthma, allergic rhinitis, Crohn's pathology, sickle cell anaemia, diabetes, a cardiovascular disease such as arteriosclerosis, atherosclerosis, restenosis, angina pectoris or myocardial infarction, an infectious disease in a cell such as bacterial, viral, and fungal infections, pneumonia, leprosy and malaria, a malignant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          bacterial,
a malignant
                                                                                                                                                                                                                                         The present sequence is that of the heavy chain variable region of antitumour necrosis factor (TNF) human recombinant monoclonal antibody (mAb) TNV148 was 1 of 8 human mAbs produced from a GenTNV fusion using spleen cells from a hybrid mouse containing human variable and constant region antibody transgenes that was immunised with human TNF alpha. The human mAbs bound immobilised human TNF alpha with high avidity and had a totally human IgG1, kappa isotype. They showed relatedness to each other and to the human germline DP-46 heavy chain sequence (see AAM51167). The invention provides isolated human, primate, rodent, mammalian, chimeric, humanised and/or complementarity determining region (CDR)-grafted anti-TNF antibodies, immunoglobulins, cleavage products and other specified portions and variants, as well as anti-TNF antibody compositions, formulation or complementary nucleic acids, vectors, host cells,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disease such as leukaemia, chronic myelocytic leukaemia, Burkit lymphoma and multiple myeloma, or a neurological disease such a sclerosis, Parkinson's disease, spinal ataxia, Alzheimer's dise Creutzfeldt-Jakob disease. TNV148 may be especially useful as a
                                                                                anti-tumor necrosis factor antibody, u
na, diabetes, atherosclerosis, resteno
                                                                                                                                       leprosy
                                                                                                          cell anemia, diabetes, a myocardial infarction,
                                                                                                                                                                                            Example 3; Fig 4; 131pp; English
                                                                                 isolated mammalian
   2002-217194/27
                                                                                                       treating sickle angina pectoris,
                           N-PSDB; ABL53510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antiinflammatory
                                                                                 Novel
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Seguence 146 AA;

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                                              79
                               QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
                                                              115
                                                                             135
                                          Gaps
                                                             20
                                                                            :≥
                                                             Length 146;
                Indels
Score 561.5; DB 5;
Pred. No. 6.2e-44;
; Mismatches 5;
               2;
92.4%;
ilarity 93.1%;
Conservative
        l Similarity
108; Conser
                                             20
                                                              19
                                -1
 Match
 Query Matc
Best Local
                Matches
                                              g
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for

Novel isolated mammalian anti-tumor necrosis factor antibody, useful treating sickle cell anemia, diabetes, atherosclerosis, restenosis, angina pectoris, myocardial infarction, leprosy.

Example 3; Fig 4; 131pp; English

Tumour necrosis factor alpha; TNF; antibody; heavy chain; CDR; complementarity determining region; antirheumatic; antiarthriticantiulcer; antiasthmatic; antiallergic; antiinflammatory; antisantidiabetic; antiarteriosclerotic; antiatherosclerotic; vasotrantianginal; cardiant; antibacterial; virucide; fungicide; anti Human recombinant mAb TNV196 heavy chain variable region. 146 standard; protein; entry) (first 10-JUN-2002 AAM51172; AAM51172 RESULT **AAM511** 

lc; sickling;

heavy

leprotic;

vasotropic;

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neuroprotective; antiparkinsonian; nootropic; TNV196; monoclonal antibody; mAb.
                                  .19
/label= Signal peptide
/note= "amino acids 1-7 are PCR primer-encoded and may
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                                                                                                                                                                                                                                              Shealy
                                                                                                                                                                                                                                             m,
                                             /note= "amino acids 1-7 are PCR differ from the native sequence 20. .146
/label= Mature_protein 31. .49
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                                                                                                                                                                                                                                              Heavner
                             Location/Qualifiers
                                                                                                                                                "encoded by
                                                                                                                                                                                                          2000US-0223360P.
2000US-0236826P.
2001US-00920137.
                                                                                                              CDR2
                                                                                       CDR1
                                                                                                                                    /label= CDR3
                                                                                                                                                                                               2001WO-US024785
                                                                                                                         FR3
                                                                          /label= FR1
50. .54
                                                                                                  FR2
                                                                                                                                                      136. .146
/label= J6
oacide; cytostatic; r
diagnosis; therapy;
                                                                                                                                                                                                                                             Knight DM,
                                                                                                                               .135
                                                                                                                  86. .117
/label= F
                                                                                0. .54
/label=
                                                                                            55. .68
/label=
                                                                                                       69. .85
/label=
                                                                                                                                                 note∍
                                                                                                                               118.
                                                                                                                                                                                                                                  INC
                                                                                                                                                                                                                                                         2002-217194/27
                                                                                                                                                                                                                                  CENTOCOR
                                                                                                                                                                                                                                                               N-PSDB; ABL53512
                                                                                                                                          Misc-difference
                                                                                                                                                                                                                                            Giles-Komar J,
                                                                                                                                                                        WO200212502-A2
                                                                                                                                                                                                          07-AUG-2000;
29-SEP-2000;
01-AUG-2001;
protozoacide;
                                                                                                                                                                                              07-AUG-2001;
                sapiens
                                                                                                                                                                                   14-FEB-2002
                                                                                                                                                                                                                                  (CENZ)
                                  Peptide
                                                          Protein
      human;
                                                                                            Region
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The present sequence is that of the heavy chain variable region of antitumour necrosis factor (TNF) human recombinant monoclonal antibody (mAb) (TUM196. TNV196 was 1 of 8 human mAbs produced from a GenTNV fusion using spleen cells from a hybrid mouse containing human variable and constant region antibody transgenes that was immunised with human TNF alpha. The numan mAbs bound immobilised human TNF alpha with high avidity and had a cotally human 1gG1, kappa isotype. They showed relatedness to each other and to the human germline DP-46 heavy chain sequence (see AAM51167). The invention provides isolated human, primate, rodent, mammalian, chimeric, humanised and/or complementarity determining region (CDR)-grafted antiportions and variants, as well as anti-TNF antibody compositions, formulations, devices, transgenic animals, transgenic plants, and methods of making and using them. The anti-TNF antibody compositions, formulations, devices, transgenic animals, transgenic plants, and methods of making and using them. The anti-TNF antibody compositions, devices, transgenic animals, transgenic comprises at least a portion of an immunoglobulin molecule, especially the heavy chain and/or light chain variable regions given in the present sequence and in AAM51165, or either all of the CDRs of the heavy chain (see AAM51158-60) or all of the CDRs of the light chain (see AAM51161-63). The antibodies may inhibit TNF-induced cell adhesion molecules, inhibit TNF binding to receptor, or provide Arthritic Index improvement

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malignant
                                                                                                                                                                                                                    multiple
                                                                                                                                        bacterial
                                       such as
Crohn's
                                                                                      disease such
in a mouse model. They are useful for diagnosing or treating a TNF related condition in a cell, tissue, organ or animal (claimed) such as rheumatoid arthritis, gastric ulcer, asthma, allergic rhinitis, Crohn's pathology, sickle cell anaemia, diabetes, a cardiovascular disease such as arteriosclerosis, atherosclerosis, restenosis, angina pectoris or myocardial infarction, an infectious disease in a cell such as bacteria viral, and fungal infections, pneumonia, leprosy and malaria, a malignatisease such as leukaemia, chronic myelocytic leukaemia, Burkitt's lymphoma and multiple myeloma, or a neurological disease such as multipsclerosis, Parkinson's disease, spinal ataxia, Alzheimer's disease and Creutzfeldt-Jakob disease
     000000000000x8
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Sequence 146 AA;

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1;
                                 9
                                 QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
                                        135
                                                           DV 115
                   Gaps
                                                                         2
                                                           1;
      Length 146;
                   Indels
Score 561.5; DB 5;
Pred. No. 6.2e-44;
     92.4%;
93.1%;
                   Conservative
            Similarity
                 108;
                                                            61
                                                                          80
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                                              20
      Query Match
             Local
           Best Loc
Matches
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124 AA
   ADA89238 standard; protein;
          entry)
          (first
          20-NOV-2003
       ADA89238;
 ADA89238
RESULT
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; MHC; disorder; MHC Human antibody T3F2 heavy chain amino acid sequence SEQ ID NO:82. complex cancerous immunoglobulin; Ig; heavy chain variable domain; light chain variable domain; major histocompatibility gp100; MUC1; TAX; hTERT; cytostatic; gene therapy; ca

Homo sapiens. Synthetic

WO2003070752-A2

28-AUG-2003.

2003WO-US005128 20-FEB-2003; 2002US-0358994P 20-FEB-2002;

Reiter Y Hoogenboom HRJM,

DEV FOUND LTD

TECHNION RES &

CORP

DYAX

(DYAX-) (TECR )

WPI; 2003-663847/62 N-PSDB; ADA89237.

domain disorder (HA New protein comprising an immunoglobulin heavy chain variable and an immunoglobulin light chain variable (VL) domain, useful preparing a composition for treating or preventing a cancerous

English. 224pp; Fig 19B; Disclosure; The present invention describes a protein comprising an immunoglobulin (Ig) heavy chain variable (VH) domain and an Ig light chain variable (VL) domain. The protein binds a complex comprising a major histocompatibility complex (MHC) and a peptide, does not substantially bind the MHC in the absence of the bound peptide, and does not substantially bind the peptide in the absence of the MHC. The peptide is a peptide fragment of gpl00,

epitope when

domains

of identifying binding site binding to a predetermined

to a method capacity of

ion relates to retain the cap

invention

The inventi (BSD) that

English

3.1; 152pp;

Disclosure; Fig

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Comprising the novel protein and a carrier; (2) a cytotoxic T cell comprising the novel protein and a carrier; (2) a cytotoxic T cell comprising one or more nucleic acids for expressing the Ig that binds a comprising one or more nucleic acids for expressing the Ig that binds a complex having an MHC and a peptide, does not substantially bind the MHC in the absence of the MHC; (3) an isolated nucleic acid comprising a first segment that encodes the Ig variable domain; (4) a comprising heterologous nucleic acid sequences that encodes the rovel protein; (5) a transgenic animal whose genome includes heterologous nucleic acid sequences that encode the protein; (6) identifying the protein that specifically binds the MHC-peptide complex; (7) expressing an antigen-binding protein; (8) ablating or killing a target cell that displays a peptide on a surface MHC molecule; (9) treating or preventing a cancerous disorder in a subject; and (10) detecting an MHC-peptide complex in a sample. A protein of the invention has cytostatic activity, and can be used in gene therapy. The protein is useful for preparing a composition for treating or preventing a cancerous disorder. The present sequence represents the heavy chain of an antibody which binds to an MHC-peptide complex where the peptide component in as peptide fragment of
                                                                                                                                                                                                                                                                                                                                                                                                    ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     domains retaining
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    domain; BSD; epitope; fusion protein; therapeutic; cancer; isease; scFv-antibody; single-chain Fv.
                                                                                                                                                                                                                                                                                                                                                                                                                                 QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDRGISAGGNYYYYGMDV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61 ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARD--FDYGDSYYYYGMDV
                                                                                                                                                                                                                                                                                                                                                                                                    7
                                                                                                                                                                                                                                                                                                                                                                    Length 124;
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                                                                                                                                                                                                                                                                                                                                                                                                    Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Phage display system for identification of binding capacity to bind an epitope.
                                                                                                                                                                                                                                                                                                                                                      Score 553; DB 6; Le
Pred. No. 3.1e-43;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chain variable region.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAY17954 standard; protein; 127 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ĸ
                                                                                                                                                                                                                                                                                                                                                                                                    3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             97EP-00120096
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98WO-EP007313
                                                                                                                                                                                                                                                                                                                                                                  91.0%;
92.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     autoimmune disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 1999-338004/28
N-PSDB; AAX77236.
                                                                                                                                                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Raum T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         heavy
                                                                                                                                                                                                                                                                                                                                       Sequence 124 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            KUFER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Binding site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO9925818-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        04-AUG-1999
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                                                                                                                                                                                                                                                                                                                                                                                                   106;
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                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
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                                                                                                                                                                                                                                                                                           peptide
TAX.
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT
AAY1795
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or multivalent polypeptide. The method comprises (a) testing a panel of BSD displayed on the surface of a biological display system as part of a biological displaye, where the fusion protein for binding to a predetermined epitope, where the fusion protein comprises an additional domain positioned N-terminal of the BSD and an amino acid sequence that mediates anchoring of the fusion protein to the surface of the display system; and (b) identifying a BSD that comprise to the predetermined epitope. The method is useful to identify bior or multivalent polypeptides that comprise antibody binding sites capable of efficiently binding to the corresponding antigen. The polypeptides or antibodies identified by the method are useful therapeutically and cancer and autoimmune diseases. ScFv-antibody fragments that bind independently of their position within bifunctional single-chain fusion proteins can be isolated from combinatorial antibody contains the new in vitro method
   recombinant bi
    domain
   further
   at least
   of
   C-terminal
   positioned
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Sequence 127 AA;

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1;
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                                                                                116
                                GSNKYY
                                         115
                Gaps
                                                                ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDRGISAGGN-YYYYGMDV
                                                                               2
                                                                       QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYD
                1;
Length 127;
                Indels
5;
               . 9
        .4e-43;
DB
                Mismatches
Score 550.5;
Pred. No. 5.
                4
90.5%;
ilarity 90.5%;
Conservative
        1 Similarity
105; Conser
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Query Match
        Local
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RESULT AAW8081

138 standard; protein; AAW80815

AAW80815;

entry) (first 16-FEB-1999

variable region chain human D4.5 heavy ŏ acid sequence

ease; our tum heavy chain variable region; receptor; antigen; disease; graft rejection; allergy; inflammatory isease; degenerative disease. endocrine disease; Human, D4.5 auto-immune 

Homo sapiens

WO9846645-A2

22-OCT-1998

98WO-EP002180 14-APR-1998;

97EP-00106109 14-APR-1997;

귭. KUFER RAUM (KUFE/) (RAUM/)

Raum T; ۵, Kufer

WPI; 1998-594564/50 N-PSDB; AAV68537.

Production of anti-human antigen receptors - by selecting a combination of functionally rearranged VH and VL immunoglobulin chains expressed fra recombinant vector.

7; 84pp; English. Fig ٠<u>.</u> Claim

This is the amino acid sequence of the human D4.5 heavy chain variable region, used in the method of the invention. for providing receptors that can be used for targeting antigens in humans without being immunogenic themselves. Such receptors can be used for treating diseases such as

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1;
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                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                        BLys; B lymphocyte stimulator; TNF superfamily; human; cytostatic; tumour necrosis factor; B cell proliferation; B cell differentiation; immunosuppressive; immunostimulant; immunomodulatory; antirheumatic; antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS; common variable immunodeficiency; acquired immunodeficiency syndrome.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BLyS
                                                                                                                                                                                   9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This invention describes novel antibodies that immunospecifically bind to B Lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the tumour necrosis factor (TNF) super family and induces B cell proliferation and differentiation. The antibodies of the invention have cytostatic, immunosuppressive, immunostimulant, immunomodulatory, antirheumatic and antiAIDS activity and can be used in vaccines to inhibit the expression and activity of BLyS. The antibodies bind to BLyS and so may be used to detect and quantitate the presence of BLyS in biological samples and may be used in this way to diagnose disease associated with aberrant expression of BLyS. They may also be
tumours or auto-immune diseases, graft rejection after transplantation, infectious diseases by targeting cellular receptors as well as allergic, inflammatory, endocrine and degenerative diseases by targeting key molecules involved in the pathological process
                                                                                                                                                                       115
                                                                                                                                                       QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for
                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          useful
                                                                                                                            ä
                                                                                                 138;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         uphocyte Stimulating polypeptides, of cancers and immune disorders.
                                                                                                 Length
                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hilbert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       way c
                                                                                                2;
                                                                                                                            9
                                                                                                 DB
                                                                                                Score 550.5; DB Pred. No. 6e-43;
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                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Vaughan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2468-2469; 3148pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAMBRIDGE ANTIBODY TECHNOLOGY
                                                                                                                                                                                                                                                                                                              252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GH,
                                                                                                                            4;
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2000US-0240816P.
2001US-0276248P.
2001US-0277379P.
2001US-0293499P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2001WO-US019110
                                                                                             90.5%;
90.5%;
                                                                                                                                                                                                                                                                                                                                                                                                  SEO
                                                                                                                                                                                                                                                                                                              ABP45720 standard; protein;
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                                                                                                                                                                                                                                                                                                                                                                      entry)
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(CAMB-) CAMBRIDGE ANT
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                                                                                                                                                                                                                                                                                                                                                                                                BLys binding
                                                                                                                Similarity
                                                                      Sequence 138 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     16-JUN-2000;
17-OCT-2000;
16-MAR-2001;
21-MAR-2001;
25-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-JUN-2001;
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                                                                                                 Query Match
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This invention relates to novel antibodies that immunospecifically bind to B lymphocyte stimulator (BLyS). The BLyS gene has been mapped to chromosome 13q34 and encodes a protein that is a member of the tumour necrosis factor superfamily and induces both in vivo and in vitro B cell proliferation and differentiation. Specifically, it refers to single chain antibody molecules (scFvs) derived, preferably, from the variable heavy CDR3 region that immunospecifically bind to a polypeptide, or fragment thereof, of either human, murine, rat or monkey BLyS. The present invention refers to the use of such antibodies in various methods for the detection, diagnosis and prognosis of diseases related to the aberrant expression or inappropriate function of BLyS or its receptor. As
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    expression
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                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antibody; B lymphocyte stimulator; BLyS; tumour necrosis factor; B cell proliferation; differentiation; scFv; myasthenia gravis; multiple sclerosis; asthma; rheumatoid arthritis; AIDS; leukaemia; carcinoma; lymphoma; antirheumatic; antiarthritic; neuroprotective; antiinflammatory; antiasthmatic; antiallergic; cytostatic.
                                                     and
               and activity such as cancer, immune, and autoimmune disorders and diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis immunodeficiency (e.g. common variable immunodeficiency (CVID) and acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 report the antibodies and fragments of the antibodies described in the memory and acquired immunodeficiency syndrome (AIDS).
                                                                                                                                                                                                                                                                                                              B lymphocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Single chain antibody that immunospecifically binds BLyS SeqID
                                                                                                                                                                                                 5
                                                                                                                                                                252;
  administered to treat diseases associated with aberrant BLyS
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                                                                                                                                                             Score 550.5; DB 5;
Pred. No. 1.2e-42;
); Mismatches 5;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 1731; 394pp; English.
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2001US-0340817P
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91.6%;
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                                                                                                                                                                               1 Similarity
109; Conser
                                                                                                                                252 AA;
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                                                                                               the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unidentified.
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.9-DEC-2001;
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                                                                                                                                 Sequence
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The patent discloses heterominibodies which are multifunctional compounds produceable in a mammalian host cell as a secretable and fully functional heterodimer of two polypeptide chains, where one of the polypeptide chains comprises, a CH1-domain (constant domain of an immunoglobulin heavy chain) and the other chain comprises CL-domain (constant domain of an immunoglobulin light chain). The polypeptide chains further comprise,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cell
                                   such
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                                                                                                                                                                                                                                                                                                                                  including myasthenia gravis and multiple sclerosis, inflammatory disorders e.g. asthma and rheumatoid arthritis, infectious diseases as AIDS and proliferative disorders including leukaemia, carcinoma an lymphoma. Accordingly, they can be described as exhibiting various activities such as antirheumatic, antiarthritic, neuroprotective, antiinflammatory, antiasthmatic, antiallergic and cytostatic. This polypeptide sequence is a single chain antibody that binds BLyS of thinvention. NOTE: The sequence data for this patent did not form part the printed specification, but was obtained in electronic format directely from WIPO at ftp.wipo.int/pub/published pct_sequences.
                                                                                                                                                                                                                                                                              Gaps
disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HD70; single-chain variable fragment; scFv; 17-1A antigen; human; Epepithelial cell adhesion molecule; inflammatory cytokine; GM-CSF; granulocyte/macrophage colony stimulating factor; heterominibody; CH1-domain; multifunctional compound; heavy chain constant domain; immunoglobulin; cytostatic; immunostimulatory; antileukaemia; diagno antiproliferative; prevention; treatment; malignant; haematopoietic lymphoma; leukaemia; solid tumour; carcinoma; melanoma; sarcoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   treating
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identifying immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New multifunctional compounds useful for preventing and/or malignant cell growth and for detection and diagnosis.
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                                                                                                                                                                                                                                         Score 550.5; DB 7
Pred. No. 1.2e-42;
0; Mismatches 5
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for
these compositions are useful
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N-PSDB; AAZ50587.
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fused to the constant domains at least two (poly)peptides having

different receptor or ligand functions, where further at least two of the

different (poly)peptides lack an intrinsic affinity for one another and

are linked via the constant domains. The heterominibodies have

cytostatic, immunostimulatory, antileukaemia and antiproliferative

activities. These compounds can be used for diagnosing, preventing and

creating malignant cell growth related to malignancies of haematopoietic

cells e.g. lymphomas and leukaemias, or to solid tumours e.g. carcinomas,

melanomas and sarcomas. The present sequence is the left chain of a

heterominibody comprising HD70 single-chain Fv (scFv) fragment N-

terminally linked to human CH1 domain which bears at its C-terminus the

human inflammatory cytokine granulocyte/macrophage colony stimulating

factor (GM-CSF), plus a hexahistidine sequence for ease of purification.

HD70 scFv specifically recognises the human epithelial cell adhesion

molecule (EpCAM) also called 17-1A antigen
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                    of the rand
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                                                                                                                                                                                                                                                                                                                                        tatic;
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                                                                                                                                                                                                                                                                                                                                                                                                             257
                                                                                                                                                                                                                                                                                                                          GSNKYY
                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                              HD70; single-chain Fv fragment; scFv; antibody; 17-1A antigen; EpCAM; epithelial cell adhesion molecule; inflammatory cytokine interleukin-2; Ck-domain; kappa light chain constant domain; heterominibody; multifunctional compound; immunoglobulin; cytos immunostimulatory; antileukaemia; diagnosis; prevention; antiproliferative; treatment; malignant; haematopoietic cell; leukaemia; solid tumour; carcinoma; melanoma; sarcoma.
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                                                                                                                                                                                                                                                               550.5; DB 3
No. 2.6e-42;
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heterodimer of two polypeptide chains, where one of the polypeptide chains comprises, a CH1-domain (constant domain of an immunoglobulin heavy chain) and the other chain comprises CL-domain (constant domain of an immunoglobulin light chain). The polypeptide chains further comprise, fused to the constant domains at least two (poly)peptides having different receptor or ligand functions, where further at least two of the different (poly) peptides lack an intrinsic affinity for one another and are linked via the constant domains. The heterominibodies have cytostatic, immunostimulatory, antileukaemia and antiproliferative activities. These compounds can be used for diagnosing, preventing and treating malignant cell growth related to malignancies of haematopoietic cells e.g. lymphomas and leukaemias, or to solid tumours e.g. carcinomas, melanomas and sarcomas. The present sequence is the right chain of a melanomas and sarcomas. The present sequence is the right chain of a melanomas and sarcomas. The present sequence is the right chain of a terminally linked to human Ck domain (constant domain of immunoglobulin-kappa light chain) which bears at its C-terminus the human inflammatory cytokine interleukin-2 (IL-2). HD70 scFv specifically recognises the human epithelial cell adhesion molecule (EpCAM) also called 17-1A antigen
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human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDRGISAGGN-YYYYGMDV
                                                                                                                                                                                                                                                                                                                                                                                                                                   1;
                                                                                                                                                                                                                                                                                                                                                                                               524;
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                                                                                                                                                                                                                                                                                                                                                                                              Score 550.5; DB 3 Pred. No. 2.6e-42;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            immunomodulator; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chen
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                                                                                                                                                                                                                                                                                                                                                                                                                                 4;
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                                                                                                                                                                                                                                                                                                                                                                                             90.5%;
90.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 17;
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                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
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                                                                                                                                                                                                                                                                                                                                                           Sequence 524 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2003057857-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                105;
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Best Local
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useful for modulating collagen formation, and for staging various cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were generated using an active protein fragment of the gene product from the clone 30664188.0.99 arising in the conditioned medium obtained when HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This sequence corresponds to a protein used in the invention.
                                                                                                                                                                              QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                   115
                                                                                                                                                                                                                                                             115
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                                                                                                                        Length 126;
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                                                                                                                                     6e-43;
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                                                                                                                                                   Mismatches
                                                                                                                         Score 550;
Pred. No.
                                                                                                                                     No.
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                                                                                                                        90.5%;
                                                                                                                                                   Conservative
                                                                                                                                      Similarity
                                                                                               Seguence 126 AA;
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immunomodulator; cytostatic;
                           protein related
       126
       protein;
                           antibody
                    entry)
                    (first
       standard;
                                 antiinflammatory;
                           PDGF-D
                                              WO2003057857-A2
                                        sapiens
                    06-MAY-2004
                           Anti-human
      ADK18785
             ADK18785
T 18
                                        Ношо
RESULT
ADK1878
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therapy

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2003WO-US000398 2002US-00041860 06-JAN-2003; 07-JAN-2002; 17-JUL-2003

er Web ϋ Gazit Ē Chen × Yang × Feng Jia X, JRF, .. Ш Corvalan Bezabeh

INC

ABGENIX

(ABGE-)

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2003-587119/55 WPI;

growth human human monoclonal antibody that binds to platelet-derived tor-D (PDGF-D), useful for treating chronic and recurrent eases, such as inflammation, autoimmunity and cancer. diseases, actor-D New

209; 255pp; English Disclosure; SEQ ID NO The invention relates to a human monoclonal antibody that binds to platelet-derived growth factor-D (PDGF-D). The antibodies are useful for treating chronic and recurrent human diseases, such as inflammation, autoimmunity and cancer. The PDGF-D nucleic acids and polypeptides are useful for modulating collagen formation, and for staging various cancers. Antibodies to platelet-derived growth factor-D (PDGF-D) were generated using an active protein fragment of the gene product from the clone 30664188.0.99 arising in the conditioned medium obtained when HEK293 cells are transfected with the plasmid pCEP4/Sec-30664188. This sequence corresponds to a protein used in the invention.

Sequence 126 AA;

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Length 126;
                Indels
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1,
      6e-43;
ore 550; DB
ed. No. 6e-4
Mismatches
 Score
Pred.
               5;
90.5%;
ilarity 91.3%;
Conservative
Query Matcn
Best Local Similarity
               105;
                Matches
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115

ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDRGISAGGNYYYYGMDV 

61

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RESULT 20 ADL25404

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OVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
                                                   115
                                                                             115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               growth
human
                                                                                                                                                                                                                                                                                                                                                                                                                                               Weber
                                                   ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDRGISAGGNYYYYGMDV
                                                                         ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDQGYRYAGYYYDYGMDV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New human monoclonal antibody that binds to platelet-derived factor-D (PDGF-D), useful for treating chronic and recurrent diseases, such as inflammation, autoimmunity and cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 126;
                                                                                                                                                                                                                                                        therapy
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                                                                                                                                                                                                                                                        immunomodulator; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 550; DB 7
Pred. No. 6e-43;
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 282; 255pp; English.
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                                                                                                                                                standard; protein;
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105; Conser
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Best Local S
Matches 105
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entry)

(first

09-SEP-2004

PDGF-DD;

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The present invention describes an antibody or its binding fragment that binds platelet derived growth factor-DD (PDGF-DD), where the antibody is useful in preparing a medicament for treating nephritis. Also described:
(1) a method of detecting nephritis; (2) a method of treating nephritis; (3) a method of inhibiting mesangial cell proliferation; and (4) a method of treating mesangial proliferative glomerulonephritis. The antibody has nephrotropic, antiinflammatory, dermatological, immunosuppressive and antidiabetic activities, and can be used in gene therapy. The antibody or its binding fragment, that binds PDGF-DD, can be used in preparing a medicament for treating nephritis and related disorders, e.g., mesangial proliferative glomerulonephritis. The present sequence represents a human monoclonal antibody (mAb) variable region sequence, which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDRGISAGGNYYYYGMDV
                                                                                                                                                                                                                                                                                                                                                                                                            platelet (for treat
                                                                                                antibody; binding fragment; platelet derived growth factor-DD; nephritis; mesangial cell proliferation inhibition; mesangial proliferative glomerulonephritis; nephrotropic; antiinflammatory; dermatological; immunosuppressive; antidiabet gene therapy; human; monoclonal antibody; mAb.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO:14
                                                                                                                                                                                                                                                                                                                                                Lichens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 126;
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                                                                                                                                                                                                                                                                                                                                               Larochelle WJ,
                                                                                                                                                                                                                                                                                                                                                                                                             that binds
medicament
                                                                           variable region protein
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Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                            binding fragment
for preparing a
                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 14; 115pp; English
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126
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ilarity 91.3%;
Conservative
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protein;
                                                                           chain
                                                                                                                                                                                                                                                                                                                                                Gazit-Bornstein
                                                                                                                                                                                                                                                                                                                                                                                                            an antibody or its | factor-DD (PDGF-DD)
                                                  entry)
                                                                                                                                                                                                                                                                                                          INC.
                                                                          1.17 heavy
                                                  (first
standard;
                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-269881/2
N-PSDB; ADL25403.
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105; Conser
                                                                                                                                                                                                                                                                                                         ABGENIX
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                                                                                                                                                                                                      WO2004024098-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                     nephritis
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ADL25404
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(CURA-)
                                                                                                                                                                                                                                                                                                                                                                                                                       growth
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Matches
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derived

tein H;

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ovarian cancer;
                                     human; monoclonal antibody; tumour necrosis factor-alpha; TNFa; anti-TNFa antibody; anabolic; antiarteriosclerotic; antiarthritic; antibacterial; antiinflammatory; antipsoriatic; antirheumatic; eating-disorder; immunomodulator; immunosuppressive; nephrotropic; neuroprotective; vasotropic; antiapoptotic; TNFa antagonist; TNF induced apoptosis; neoplastic disease; breast cancer; ovarian can bladder cancer; lung cancer; glioblastoma; stomach cancer; endometrial cancer; kidney cancer; colon cancer; pancreatic cancer; prostrate cancer; immuno-mediated inflammatory disease; rheumatoid arthritis; glomerulonephritis; atherosclerosis; psoriasis; restenosis; autoimmune disease; Crohn's disease; graft-host reaction; septic shock; cachexia; multiple sclerosis.
                     ID NO:128
                                                                                                                                                                                                                                                                                                                           몺
                                                                                                                                                                                                                                                                                                               Feng X, Klakamp S;
C, Liang ML, Lee Qiaojuan JS;
                     SEO
                     chain variable region
                                                                                                                                                                                                                                                                                                                O, Green L, ]
mi P, Pigott (
Senaldi G, Q:
                                                                                                                                                                                                                                                                                                                Babcook JS, Kang JS, Foord O,
Haak-Frendscho M, Rathanaswami
Manchulencho K, Faggioni R, S
                                                                                                                                                                                                                                                                                                                Foord O,
                     Human anti-TNFa antibody light
                                                                                                                                                                                                                                                 2003WO-US038281.
                                                                                                                                                                                                                                                                       2002US-0430729P
                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-480601/45.
N-PSDB; ADP22221.
                                                                                                                                                                                                                                                                                             (ABGE-) ABGENIX INC.
                                                                                                                                                                                                       WO2004050683-A2.
                                                                                                                                                                                                                                                 02-DEC-2003;
                                                                                                                                                                                                                                                                       02-DEC-2002;
                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                             17-JUN-2004.
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New recombinant human monoclonal antibody that specifically binds to Tumor Necrosis Factor-alpha, useful for treating neoplastic disease such as cancers, or immuno-mediated inflammatory diseases such as rheumatoid arthritis.

Example 10; SEQ ID NO 128; 213pp; English

The present invention describes a human monoclonal antibody (I) that specifically binds to tumour necrosis factor-alpha (TNPa) and comprises:

(a) a heavy chain complementarity determining region I (CDRI) having the two fully defined 5 amino acid sequence (S1, ADP22417) or (S2, ADP22421);

and (b) a light chain CDRI having the two fully defined 11 amino acid sequence (S3, ADP22418) or (S4, ADP22424). ADP22417) or (S2, ADP22418) or (S4, ADP22424). ADP22418 or (S4, ADP22424). ADP22418 or (S4, ADP22424). ADP22418 or (S4, ADP22424). ADP22418 or (S4, ADP22424). ADP2418 or (S4, ADP2244). ADP2418 o

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Gaps

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention describes a human monoclonal antibody (I) that specifically binds to tumour necrosis factor-alpha (TNFa) and comprises:
(a) a heavy chain complementarity determining region 1 (CDR1) having the two fully defined 5 amino acid sequence (S1, ADP22417) or (S2, ADP22421); and (b) a light chain CDR1 having the two fully defined 11 amino acid sequence (S3, ADP22418) or (S4, ADP22424). Also described: (1) assaying (M1) the level of TNFa in a patient sample, comprising contacting with (I), and detecting the level of binding between the antibody and TNFa in
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                                                                                                                                          GSNKYY
                                                                                      Gaps
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Tumor Necrosis Factor-alpha, useful for treating neoplastic disease
as cancers, or immuno-mediated inflammatory diseases such as rheumato
                                                                                                                                                                                                                            115
                                                                                                                                                                                                                                                                                                                                                                                                                  ID NO:206
                                                                                                                                                                                          ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDRGISAGGNYYYYGMDV
                                                                                                                     QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYD
                                                                                                                                                                                                        Klakamp S;
3 ML, Lee R
                                                                                       ö
                                                     Length 126;
                                                                                                                                                                                                                                                                                                                                                                                                               chain variable region SEQ
                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Feng X, Kla
t C, Liang ML
Qiaojuan JS;
                                                Score 546; DB 8; I
Pred. No. 1.4e-42;
; Mismatches 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kang JS, Foord O, Green L, 10 M, Rathanaswami P, Pigott K, Faggioni R, Senaldi G, C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 10; SEQ ID NO 206; 213pp; English.
                                                                                                                                                                                                                                                                                                           ADP22300 standard; protein; 125 AA
                                                                                   2,
                                                                                                                                                                                                                                                                                                                                                                                                                Human anti-TNFa antibody heavy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2003WO-US038281.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    02-DEC-2002; 2002US-0430729P
                                                  89.8%;
91.3%;
                                                                                                                                                                                                                                                                                                                                                                                  entry)
                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2004-480601/45.
N-PSDB; ADP22299.
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                                                                                                                                                                                                                                                                                                                                                                                 (first
                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Babcook JS, Kang
Haak-Frendscho M,
                Sequence 126 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Manchulencho K,
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                                                                                 105;
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                                                                  Local
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                                                                                    Matches
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the sample; (2) a composition comprising the antibody or its functional fragment and a carrier; (3) treating (M2) an animal suffering from a neoplastic, or an immuno-mediated inflammatory disease by selecting an animal in need of treatment for the disease by administering the human concolonal antibody of (I); and (4) inhibiting (M3) TWFa induced apoptosis in an animal by selecting an animal in need of treatment for TWFa induced apoptosis by administering the human monoclonal antibody of (I). (I) has anabolic, antiarteriosclerotic, antiarthritic, antibacterial, antiinflammatory, antippositic, antiarthritic, antibacterial, antiminflammatory, immunosuppressive, nephrotropic, cating-disorders, immunomodulator, immunosuppressive, nephrotropic, and can be used as a TWFa antagonist. The antibody (I) is useful in the preparation of medicament for treating TWF induced apoptosis, neoplastic disease such as breast cancer, ovarian cancer, blander cancer, lung cancer, glioblastoma, stomach cancer, and prostrate cancer; or immuno-mediated inflammatory diseases such as rheumatoid arthritis, glomerulonephritis, atherosclerosis, psoriasis, restences, canchersia, and antiple sclerosis. The present sequence represents a human anti-TNFa antibody heavy chain variable region, which is used in the exemplification of the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVIWYDGSNKYY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human; monoclonal antibody; tumour necrosis factor-alpha; TNFa; anti-TNFa antibody; anabolic; antiarteriosclerotic; antiarthritic; antibacterial; antiinflammatory; antipsoriatic; antirheumatic; eating-disorder; immunomodulator; immunosuppressive; nephrotropic; neuroprotective; vasotropic; antiapoptotic; TNFa antagonist; TNF induced apoptosis; neoplastic disease; breast cancer; ovarian cibladder cancer; lung cancer; glioblastoma; stomach cancer; endometrial cancer; kidney cancer; colon cancer; pancreatic cancer; prostrate cancer; immuno-mediated inflammatory disease; psoriasis restenosis; autoimmune disease; Crohn's disease; graft-host reaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               chain variable region SEQ ID NO:222
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 125;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 545.5; DB 8;
Pred. No. 1.5e-42;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 89.7%;
91.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   l Similarity
105; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 125 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                anti-TNFa
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ADP2231
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Lee
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 Klakamp
 Feng X, Klaka
t C, Liang ML,
Qiaojuan JS;
           ni P, Pigott
Senaldi G, (
  Green L
           Rathanaswami P,
 ò
 Foord
                     Faggioni R,
 Kang JS,
Babcook JS, Kang
Haak-Frendscho M,
                    Manchulencho K,
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2004-480601/45

N-PSDB; ADP22315

eumatoid ease wew recombinant human monoclonal antibody that specifically binds Tumor Necrosis Factor-alpha, useful for treating neoplastic diseas as cancers, or immuno-mediated inflammatory diseases such as rheum arthritis.

Example 10; SEQ ID NO 222; 213pp; English.

The present invention describes a human monoclonal antibody (1) that specifically binds to tumour necrosis factor-alpha (TNFa) and comprises:

(a) a heavy chain complementarity determining region 1 (CDF1) having the two fully defined 5 amino acid sequence (51, ADP22417) or (52, ADP22421); and (b) a light chain CDR1 having the two fully defined 11 amino acid sequence (51, ADP22418) or (54, ADP22444). ADP3 described: (1) assaying (M1) the level of TNFa in a patient sample, comprising contacting with (I), and detecting the level of binding between the antibody and TNFa in the sample; (2) a composition comprising the antibody or its functional reagment and a carrier; (3) treating (M2) an animal suffering from a neoplastic, or an immuno-mediated inflammatory disease by selecting an onoclonal antibody of (I); and (4) inhibiting (M3) TNFa induced apoptosis in an animal by selecting an animal in need of treatment for the disease by administering the human monoclonal antibody of (I); and (4) inhibiting (M3) TNFa induced apoptosis by administering the human monoclonal antibody of (I); and (4) inhibiting (M3) TNFa induced apoptosis by administering the human monoclonal antibody of (I); and (I) inhibiting (M3) TNFa induced apoptosis by administering the human monoclonal antibody of (I); and (I) inhibiting (M3) TNFa induced apoptosis by administering the human monoclonal antibody of (I); and (I) inhibiting (M3) TNFa induced apoptosis by administering the human monoclonal antibody of (I); and (I) inhibiting (M3) TNFa induced apoptosis, antipody of (I); and (I) inhibiting (I) in the preparation of the present sequence; or immunoclonal antipody arthritis; and cancer, ovarian cancer, blanky which is used in the antibody, heavy chain variable region, which is used in the expression of the present invention. 

Sequence 125 AA;

9 **QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY** Gaps ij Length Indels Score 545.5; DB 8; Pred. No. 1.5e-42; 5; 89.7%; ilarity 90.4%; Conservative Local Similarity 104; Best Loc Matches ò

115 114 > **ADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARDRGISAGGNYYYYGMD** 19

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GSIKYY

RESULT 24 ADP22312

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125 standard; protein; ADP22312

entry) (first 09-SEP-2004

218 Human anti-TNFa antibody heavy chain variable region SEQ ID NO:

ic; human; monoclonal antibody; tumour necrosis factor-alpha; TNFa; anti-TNFa antibody; anabolic; antiarteriosclerotic; antiarthrit antibacterial; antiinflammatory; antipsoriatic; antirheumatic;

ovarian cancer; eating-disorder; immunomodulator; immunosuppressive; nephrotropic; neuroprotective; vasotropic; antiapoptotic; TNFa antagonist; TNF induced apoptosis; neoplastic disease; breast cancer; ovarian can bladder cancer; lung cancer; glioblastoma; stomach cancer; endometrial cancer; kidney cancer; colon cancer; pancreatic cancer; prostrate cancer; immuno-mediated inflammatory disease; rheumatoid arthritis; glomerulonephritis; atherosclerosis; psoriasis; restenosis; autoimmune disease; Crohn's disease; graft-host reaction; septic shock; cachexia; multiple sclerosis. 

Homo sapiens

WO2004050683-A2

17-JUN-2004

2003WO-US038281 02-DEC-2003; 2002US-0430729P 02-DEC-2002;

(ABGE-) ABGENIX INC.

Feng X, Klakamp S. C, Liang ML, Lee Qiaojuan JS; O, Green L, | mi P, Pigott ( Senaldi G, Q: Kang JS, Foord U, Faggioni R, aak-Frendscho M, Manchulencho K, Babcook

WPI; 2004-480601/45 N-PSDB; ADP22311.

Buch New recombinant human monoclonal antibody that specifically binds to Tumor Necrosis Factor-alpha, useful for treating neoplastic disease sucl as cancers, or immuno-mediated inflammatory diseases such as rheumatoid

213pp; English 218; Example 10; SEQ ID NO

The present invention describes a human monoclonal antibody (I) that specifically binds to tumour necrosis factor-alpha (TNFa) and comprises:

(a) a heavy chain complementarity determining region I (CDRI) having the two fully defined 5 amino acid sequence (31, ADP2241); and (b) a light chain CDRI having the two fully defined 11 amino acid sequence (31, ADP2241); and detecting the level of TNFa in a patient sample, comprising contacting with (II), and detecting the level of TNFa in a patient sample, comprising contacting with the sample; (2) a composition comprising the antibody and TNFa in need of treatment for the disease by administering from a neoplastic, or an immuno-mediated inflammatory disease by selecting an animal in need of treatment for the disease by administering the human monoclonal antibody of (II), and (4) inhibiting (M3) in need of treatment for TNFa induced apoptosis by administering the human monoclonal antibody of (II) and (4) inhibiting (M3) in need of treatment for TNFa induced apoptosis by administering the human monoclonal antibody of (II) and (4) inhibiting (M3) and the present for TNFa induced apoptosis by administering the human monoclonal antibody of (II) and (II) is useful in the preparation of antibacterial, antinflammatory, antipsoriatic, antirheumatic, eating-disorders, immunomodulator, immunosuppressive, nephrotropic, or artial cancer, ovarian cancer, bladder cancer, lung cancer, globlastoma, breast cancer, ovarian cancer, bladder cancer, lung cancer, globlastoma, streament cancer, bladder cancer, lung cancer, gancratic cancer, pancratic cancer, pancratic cancer, and prostrate cancer; or immuno-mediated inflammatory diseases such as rheumatoid arthritis, glomerulonephritis, atherosclevosis, psoriasis, restenosis, auccimmune disease, crown and antipple sclerosis. The present sequence represents a human anti-TNFa multiple sclerosis. The present sequence represents a human anti-TNFa multiple sclerosis. The present sequence represents a human anti-TNFa multiple sclerosis. used heavy chain variable region, whi ication of the present invention.

Sequence 125

exemplification

ij Gaps ;; 1 Length Indels 8; Score 545.5; DB Pred. No. 1.5e-42 3, 89.7%; ilarity 91.3%; Conservative Similarity 105; Match Local Matches

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The present sequence is that of a human DP-46 heavy chain variable region encoded by a human germline DP-46 gene in a transgenic mouse used in human monoclonal antibody (mAb) construction. A GenTNV fusion was performed using spleen cells from a hybrid mouse containing human variable and constant region antibody transgenes that was immunised with
                                                                                                                                                                                                               Tumour necrosis factor alpha; TNF; antibody; heavy chain; CDR; complementarity determining region; antirheumatic; antiarthritic; antiulcer; antiasthmatic; antiallergic; antiinflammatory; antisickling; antidiabetic; antiarteriosclerotic; antiatherosclerotic; vasotropic; antianginal; cardiant; antibacterial; virucide; fungicide; antileprotic; protozoacide; cytostatic; neuroprotective; antiparkinsonian; nootropic; human; diagnosis; therapy; DP-46.
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QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYY
            seful
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                                             ADSVKGRFTISRDNSKNTLYLOMNSLRAEDTAVYYCARDRGISAGGNYYYYGMDV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel isolated mammalian anti-tumor necrosis factor antibody, utreating sickle cell anemia, diabetes, atherosclerosis, restenoangina pectoris, myocardial infarction, leprosy.
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1. 30
/label= FR1
31. 35
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                                                                                                                          AAM51167 standard; protein; 118 AA
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                                                                                                                                                                                             chain variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-AUG-2000; 2000US-0223360P
29-SEP-2000; 2000US-0236826P
01-AUG-2001; 2001US-00920137
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CDR3
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/label= CD
108. .118
/label= J6
                                                                                                                                                                        entry)
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/label= '
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/label=
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CENTOCOR INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-217194/27.
N-PSDB; ABL53507.
                                                                                                                                                                        (first
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cobtained that bound immobilised human TNF alpha with apparently high avidity. These mabs had a totally human IgG1, kappa isotype. Their heavy chain variable region deduced amino acid sequences (see AAMS1168-72) chain variable region deduced amino acid sequences (see AAMS1168-72) showed high similarity to the DP-46 sequence. The invention provides isolated human, primate, rodent, mammalian, chimeric, humanised and/or complementarity determining region (CDR) grafted anti-TNF antibodies, and cleavage products and variants, as well as anti-TNF antibody compositions, encoding or complementary nucleic acids, vectors, host cells, compositions, formulations, devices, transgenic animals, transgenic plants, and methods of making and using them. The anti-TNF antibody comprises at least a portion of an immunoglobulin molecule, especially the heavy chain and/or light chain variable regions given in the present sequence and in AAM51165, or either all of the CDRs of the intervent sequence and in AAM51165, or either all of the CDRs of the light chain (see AAM51161-63). The antibodies may inhibit TNF-induced cell adhesion molecules, inhibit TNF binding to receptor, or provide Arthritic Index improvement in a mouse model. They are useful for diagnosing or treating a TNF related condition in a cell, tissue, organ or animal (claimed) such as rheumatoid arthritis, gastric ulcer, asthma, allergic rhinitis, cronic animal (claimed) such as bacterial, viral, and fungal infectious disease in a cell such as bacterial, viral, and fungal infectious pneumonia, leprosy and malaria, a malignant disease such as leukaemia, chronic myelocytical disease such as multiple myeloma, or a neurological disease such as multiple sclerosis, Parkinson's disease, spinal ataxia,
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Matches 106
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                                                                         Sequence 46, Application US/09456090A;
Sequence 46, Application US/09456090A;
GENERAL INFORMATION:
APPLICANT: Buechler, Joe
APPLICANT: Valkirs, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS;
FILE REFERENCE: 020015-0002000US;
CURRENT FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 110
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 46
LENGTH: 224
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Pred. No. 6.3e-43;
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Pred. No. 6.3e-43;
4; Mismatches 1;
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valkirs, Gunars

Gray, Jeff

APPLICANT: Lonberg, Nils

APPLICANT: Biosite Diagnostics, Inc.

APPLICANT: GenPharm International

TITLE OF INVENTION: Human Antibodies

FILE REFERENCE: 020015-000110US

CURRENT APPLICATION NUMBER: US/09/453,234

CURRENT FILING DATE: 1999-12-01

PRIOR FILING DATE: 1999-10-02

NUMBER OF SEQ ID NOS: 112

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 46

LENGTH: 224

TYPE: PPT
            ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 46, Application US/09453234
Patent No. 6794132
GENERAL INFORMATION:
APPLICANT: Buechler, Joe
APPLICANT: Valkirs, Gunars
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ORGANISM: Homo sapiens
OTHER INFORMATION: M1-10L
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INFORMATION: M1-10L
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; Patent No. 6680209
; GENERAL INFORMATION:
; APPLICANT: Buechler, Joe
; APPLICANT: Valkirs, Gunars
; APPLICANT: Gray, Jeff
; APPLICANT: Lonberg, Nils
; TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS
; FILE REFERENCE: 020015-000200US
; CURRENT APPLICATION NUMBER: US/09/456,090A
; CURRENT FILING DATE: 1999-12-06
; NUMBER OF SEQ ID NOS: 110
; SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRTNWPR-TFGQGTKVEIK
RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK
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Pred. No. 1.9e-42;
2; Mismatches 2;
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Pred. No. 1.9e
2; Mismatches
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APPLICANT: Valkirs, Gunars
APPLICANT: Valkirs, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Gray, Jeff
TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGN
FILE REFERENCE: 020015-000200US
CURRENT APPLICATION NUMBER: US/09/456,090A
CURRENT FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 110
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 82
                                                                                                                              Sequence 82, Application US/09456090A
Patent No. 6680209
GENERAL INFORMATION:
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Conservative
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Conservative
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OTHER INFORMATION: M2-34L
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OTHER INFORMATION: M2-31L
US-09-456-090A-82
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Best Local Similarity
Matches 103; Conser
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Matches 103; Conser
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Pred. No. 1.9e-42;
2; Mismatches 2;
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Pred. No. 1.9e-42;
; Mismatches 2;
                                                                                                                                                         APPLICANT: Buechler, Joe
APPLICANT: Valkirs, Gunars
APPLICANT: Valkirs, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Gray, Jeff
APPLICANT: Biosite Diagnostics, Inc.
APPLICANT: GenPharm International
TITLE OF INVENTION: Human Antibodies
FILE REFERENCE: 020015-000110US
CURRENT APPLICATION NUMBER: US/09/453,234
CURRENT FILING DATE: 1999-12-01
PRIOR APPLICATION NUMBER: US 60/157,415
PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 112
SOFTWARE: Patentin Ver. 2.1
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APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
APPLICANT: Biosite Diagnostics, Inc.
APPLICANT: GenPharm International
TITLE OF INVENTION: Human Antibodies
FILE REFERENCE: 020015-000110US
CURRENT APPLICATION NUMBER: US/09/453,234
CURRENT FILING DATE: 1999-12-01
PRIOR APPLICATION NUMBER: US 60/157,415
PRIOR FILING DATE: 1999-10-02
                                                                                                         Sequence 88, Application US/09453234
Patent No. 6794132
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 90, Application US/09453234
Patent No. 6794132
GENERAL INFORMATION:
APPLICANT: Buechler, Joe
APPLICANT: Valkirs, Gunars
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ilarity 95.4%;
Conservative
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Best Local Similarity 95.4%;
Matches 103; Conservative
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; ORGANISM: Homo sapiens
; OTHER INFORMATION: M2-34L
US-09-453-234-88
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COTHER INFORMATION: M2-35L
US-09-453-234-90
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SOFTWARE: Patentin Ver. 2
EQ ID NO 90
LENGTH: 224
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Best Local Similarity
Matches 103; Conser
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LENGTH: 224
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  RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRTNWPR-TFGQGTKVEIK 107
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                                                                                                                                    APPLICANT: Buechler, Joe
APPLICANT: Buechler, Joe
APPLICANT: Valkirs, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Gray, Jeff
APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS
FILE REFERENCE: 020015-0002000S
CURRENT APPLICATION NUMBER: US/09/456,090A
CURRENT FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 110
SOFTWARE: Patentin. Ver. 2.1
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Pred. No. 1.9e-42;
; Mismatches 2
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Pred. No. 1.9e-42;
; Mismatches 2
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APPLICANT: Gray, Jeff
APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
APPLICANT: Biosite Diagnostics, Inc.
APPLICANT: GenPharm International
TITLE OF INVENTION: Human Antibodies
FILE REFERENCE: 020015-0001100S
CURRENT APPLICATION NUMBER: US/09/453,234
CURRENT FILING DATE: 1999-12-01
PRIOR FILING DATE: 1999-10-02
                                                                         6680209
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Patent No. 6794132
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ilarity 95.4%;
Conservative
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Valkirs, Gunars
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SOFTWARE: Patentin Ver. 2.1
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; ORGANISM: Homo sapiens
; OTHER INFORMATION: M2-35L
US-09-456-090A-90
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COTHER INFORMATION: M2-31L
US-09-453-234-82
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103; Conser
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APPLICANT: Buechler
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US-09-456-090A-90
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LENGTH: 224
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LENGTH: 224
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Patent No. 6
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                                                                                                                                                                                       Sequence 84, Application US/09456090A; Sequence 84, Application US/09456090A; Patent No. 6680209; GENERAL INFORMATION:
APPLICANT: Buechler, Joe
APPLICANT: Valkirs, Gunars; APPLICANT: Lonberg, Nils; APPLICANT: Lonberg, Nils; TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS; FILE REFERENCE: 020015-000200US; CURRENT APPLICATION NUMBER: US/09/456,090A; CURRENT FILING DATE: 1999-12-06; NUMBER OF SEQ ID NOS: 110; SOFTWARE: PatentIn Ver. 2.1; SEQ ID NO 84; LENGTH: 224
                                                                                61 RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRNNW-PLTFGGGTKVEIK
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Pred. No. 4.5e-42;
; Mismatches 3;
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; Sequence 84, Application US/09453234
; Patent No. 6794132
; GENERAL INFORMATION:
; APPLICANT: Buechler, Joe
; APPLICANT: Cray, Jeff
; APPLICANT: Lonberg, Nils
; APPLICANT: GenPharm International
; TITLE OF INVENTION: Human Antibodies
; TITLE OF INVENTION: Human Antibodies
; FILE REFERENCE: 020015-000110US
; CURRENT APPLICATION NUMBER: US/09/453,234
; CURRENT FILING DATE: 1999-12-01
; PRIOR APPLICATION NUMBER: US 60/157,415
; RUMBER OF SEQ ID NOS: 112
; SEQ ID NO 84
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94.4%;
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Best Local Similarity 94.4%;
Matches 102; Conservative
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OTHER INFORMATION: M2-32L
-09-453-234-84
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; OTHER INFORMATION: M2-32L
US-09-456-090A-84
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US-09-456-090A-36

US-09-456-090A-36

Sequence 36, Application US/09456090A

Patent No. 6680209

GENERAL INFORMATION:
APPLICANT: Buechler, Joe
APPLICANT: Valkirs, Gunars
APPLICANT: Cray, Jeff
APPLICANT: Lonberg, Nils
TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS
FILE REFERENCE: 020015-000200US
CURRENT APPLICATION NUMBER: US/09/456,090A

CURRENT FILING DATE: 1999-12-06

NUMBER OF SEQ ID NOS: 110

SOFTWARE: PatentIn Ver. 2.1
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Pred. No. 2.3e-42;
1; Mismatches 3;
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Pred. No. 2.3e
1; Mismatches
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APPLICANT: Valkirs, Gunars
APPLICANT: Valkirs, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
APPLICANT: Biosite Diagnostics, Inc.
APPLICANT: GenPharm International
TITLE OF INVENTION: Human Antibodies
FILE REFERENCE: 020015-000110US
CURRENT APPLICATION NUMBER: US/09/453,234
CURRENT FILING DATE: 1999-12-01
PRIOR FILING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 112
SOFTWARE: PatentIn Ver. 2.1
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Patent No. 6794132
GENERAL INFORMATION:
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ilarity 95.4%;
Conservative
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Best Local Similarity 95.4%;
Matches 103; Conservative
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ORGANISM: Homo sapiens
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LENGTH: 224
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Sequence 4, Application US/09203768A

Sequence 4, Application US/09203768A

Patent No. 6787638

GENERAL INFORMATION:

APPLICANT: Huse, William D.

APPLICANT: Watkins, Jeffry D.

TITLE OF INVENTION: Tumor Specific Human Monoclonal Antibodies and Methods

TITLE OF INVENTION: of Use

FILE REFERENCE: P-IX 2947

CURRENT APPLICATION NUMBER: US/09/203,768A

CURRENT FILING DATE: 1998-12-02

NUMBER OF SEQ ID NOS: 8
                                                               1 EIVLTOSPATLSLSPGERATLSCRASOSV-SSYLAWYQOKPGOAPRLLIYDASNRATGIP
                                                                                 EIVLTQSPATLSLSPGERATLSCRASQSV-SSYLAWYQQKPGQAPRLLIYDASNRATGIP
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4.5e-40;
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Pred. No. 5.9e-40;
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              Pred. No. 4.5
                                                                                                                                                                                                                                                                                                                     APPLICANT: Valkits, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
APPLICANT: Lonberg, Nils
APPLICANT: Biosite Diagnostics, Inc.
APPLICANT: GenPharm International
TITLE OF INVENTION: Human Antibodies
FILE REFERENCE: 020015-0001100S
CURRENT APPLICATION NUMBER: US/09/453,234
CURRENT FILING DATE: 1999-12-01
PRIOR APPLICATION NUMBER: US 60/157,415
PRIOR FILLING DATE: 1999-10-02
NUMBER OF SEQ ID NOS: 112
SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                    RESULT 12
US-09-453-234-38
; Sequence 38, Application US/09453234
; Patent No. 6794132
; GENERAL INFORMATION:
; APPLICANT: Buechler, Joe
. APPLICANT: Valkirs, Gunars
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87.0%;
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               90.8%;
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                               Conservative
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Best Local Similarity
               Similarity
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                                 99;
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LENGTH: 117
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LENGTH: 226
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Best Local S
Matches 99
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             Best Local
Matches 9
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               1;
                                                                                                            Length 107;
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Sequence 38, Application US/09456090A

GENERAL INFORMATION:
APPLICANT: Buechler, Joe
APPLICANT: Valkirs, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS
FILE REFERENCE: 020015-0002000US
CURRENT APPLICATION NUMBER: US/09/456,090A
CURRENT FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 110
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 38
LINGTH: 226
                                                                                                                                                                                                                        Sequence 40, Application US/09438954
; Sequence 40, Application US/09438954
; GENERAL INFORMATION:
; APPLICANT: HONG, Hyo Jeong
; APPLICANT: PARK, Sung Sup
; APPLICANT: KANG, Young Jun
; APPLICANT: KANG, Chang-Yuil
; APPLICANT: YOON, Sung Kwan
; TITLE OF INVENTION: HUMANIZED ANTIBODY SPECIFIC FOR HUMAN 4-1
; TITLE OF INVENTION: PHARMACEUTICAL COMPOSITION COMPRISING SAM
; FILE REFERENCE: 1303-124P
; CURRENT APPLICATION NUMBER: US/09/438,954
; CURRENT FILING DATE: 1999-11-12
                                       1 EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLI
               Indels
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             Mismatches
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Best Local Similarity 91.7%;
Matches 99; Conservative
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             Conservative
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SOFTWARE: Patentin Ver.
SEQ ID NO 40
LENGTH: 107
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US-09-456-090A-38
                                                                                                                                                                                              RESULT 13
US-09-438-954-40
             102;
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1 EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPA
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                                                                                                                           5814318-Human Animals for ologous Antibodies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 115;
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                                                                                                                                                                                        and Crew
Suite 200
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Mismatches 0:
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t Tower,
                                                                                                                         Transgenic No. 5814318
Producing Heterologous
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                                                                                                                                                                                        Townsend K
a, Steuart
                                         Sequence 179, Application US/08096762;
Patent No. 5814318;
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No.;
TITLE OF INVENTION: Producing Heteral Number OF SEQUENCES: 210
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 26-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/990,860
FILING DATE: 16-DEC-1992
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 07/853,408
FILING DATE: 18-MAR-1992
PRIOR APPLICATION DATA:
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FILING DATE: 17-DEC-1991
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-JUN-1992
PRIOR APPLICATION DATA:
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26-APR-1993
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                                                                                                                                                                                                                                                                                                : Floppy disk
IBM PC compatible
YSTEM: PC-DOS/MS-DOS
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US-09-042-353-42
; Sequence 42, Application US/09042353
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 1464
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEPHONE: 415-326-2422
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T: One Market Plaza, San Francisco
: California
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N: 800
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APPLICATION NUMBER: US/(FILING DATE: 22-JUL-1992)
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US (
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95; Conserv
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INFORMATION FOR SEQ
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Sequence 179
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STATE:
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Producing Heterologous Antibodies
197
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te 200
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One Market Plaza, Steuart Tower, Suite
San Francisco
California
                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/053,131

FILING DATE: 26-APR-1993

CLASSIFICATION: 800
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Pred. No. 8.9e-40;
Mismatches 0;
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APPLICATION NUMBER: US 07/990,860
FILING DATE: 16-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/810,279
FILING DATE: 17-DEC-1991
PRIOR APPLICATION DATA:
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FILING DATE: 18-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-
                                                                                                                                                                                S-08-053-131-179
Sequence 179, Application US/08053131
Patent No. 5661016
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
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100.0%; P1
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APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transge
TITLE OF INVENTION: Produci
NUMBER OF SEQUENCES: 197
CORRESPONDENCE ADDRESS:
ADDRESSEE: TOWNERS:
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ino acid
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R SEQ ID NO:
  Conservative
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US-08-053-131-179
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CITY: San
STATE: Cal
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94;
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Best Local S
Matches 95
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for
                                        APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 6255458-Human Animals
TITLE OF INVENTION: Producing Heterologous Antibodies
                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                   NUMBER OF SEQUENCES: 421
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
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PRIOR APPLICATION DATA:
APPLICATION NATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 07/810,279
FILING DATE: 17-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/853,408
FILING DATE: 18-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/053,131
FILING DATE: 16-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/056,762
FILING DATE: 26-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,301
FILING DATE: 22-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,301
FILING DATE: 18-NOV-1993
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US 08/155,301
FILING DATE: 18-NOV-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,301
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/165,699
FILING DATE: 10-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/209.741
FILING DATE:
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FILING DATE: 07-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/544,404
FILING DATE: 10-OCT-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/TTCO-'-
ATTORNEY'-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/09/042,353
FILING DATE: 13-MAR-1998
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
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10-OCT-1996
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
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                                                                                                                                                                                                                                                                                                 ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
No. 6255458
AL INFORMATION:
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 Patent No
GENERAL
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Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 6300129-Human Animals for
Producing Heterologous Antibodies
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Center, Eighth Floor
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Pred. No. 8.9e-40;
); Mismatches 0;
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APPLICATION NUMBER: US 08/728,463
FILING DATE: 10-OCT-1996
APPLICATION NUMBER: US 08/544,404
FILING DATE: 10-OCT-1995
APPLICATION NUMBER: US 08/352,322
FILING DATE: 07-DEC-1994
APPLICATION NUMBER: US 08/209,741
FILING DATE: 09-MAR-1994
APPLICATION NUMBER: US 08/165,699
FILING DATE: 10-DEC-1993
APPLICATION NUMBER: US 08/161,739
FILING DATE: 03-DEC-1993
APPLICATION NUMBER: US 08/155,301
FILING DATE: 18-NOV-1993
APPLICATION NUMBER: US 08/096,762
FILING DATE: 22-JUL-1993
APPLICATION NUMBER: US 08/053,131
FILING DATE: 26-APR-1993
APPLICATION NUMBER: US 08/053,131
FILING DATE: 26-APR-1993
APPLICATION NUMBER: US 08/053,131
FILING DATE: 26-APR-1993
APPLICATION NUMBER: US 08/053,131
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FILING DATE: 02-Dec-1996
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STATE: Calliornia
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Ve
36,429
.p. 014643-009040US
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16-DEC-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STREET: Two Embarcadero
CITY: San Francisco
STATE: California
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                                        TELECOMMUNICATION INFORMATION:
                                                           TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 42:
SEQUENCE CHARACTERISTICS:
LENGTH: 115 amino acids
TYPE: amino acid
                                                                                                     42:
                                                                                                                                                                                                                                                           87.3%;
100.0%;
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CORRESPONDENCE ADDRESS
      REGISTRATION NUMBER: 36 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                     protein
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US-09-042-353-42
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US-08-758-417A-307
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Best Local S
Matches 95
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ATTORNEY/AGENT INFORMATION:

NAME: Serafini, Andrew T.

REGISTRATION NUMBER: 41,303

REFERENCE/DOCKET NUMBER: 014643-009030US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300
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Pred. No. 8.9e-40;
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US-08-635-109-6
; Sequence 6, Application US/08635109
; Patent No. 6538114
; GENERAL INFORMATION:
; APPLICANT: Persson, Mats A. A.
APPLICANT: Allander, Tobias E.
TITLE OF INVENTION: HEPATITIS C VIRUS (HCV)
; NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
; ADDRESSEE: REED & ROBINS
STREET: 285 Hamilton Avenue, Suite 200
CITY: Palo Alto
STATE: California
; COUNTRY: USA
                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 307:
US-08-758-417A-307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 94301

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/635,109
FILING DATE: 19-APR-1996
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                                                                             TELEFAX: (415) 5/0 TELEFAX: (415) 5/0 TELEFAX: INFORMATION FOR SEQ ID NO: 307: SEQUENCE CHARACTERISTICS: LENGTH: 115 amino acids
                                                                                                                                                       acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: McCracken, Thomas P
REGISTRATION NUMBER: 38,548
REFERENCE/DOCKET NUMBER: 2300
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 327-3400
                                                                                                                                                                                                                                                           87.3%; Scu
100.0%; Pr
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FORMATION FOR SEQ ID NO: (
SEQUENCE CHARACTERISTICS:
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amino acid
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nes 95; Conser
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US-08-635-109-6
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Length 105;

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Score 492; Pred. No. 1

87.1%; 91.4%;

Local Similarity

Query

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                                4 LTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPARFS
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                                                      3 LTQSPATLSLSPGERATLSCRASQSVNKYLAWYQQKPGQAPRLLIYDASNRATGIPARFS
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Gaps
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                                                                                                                                                                                                                        Sequence 9, Application US/08844215
Patent No. 6747136
GENERAL INFORMATION:
APPLICANT: PERSSON, MATS AXEL
APPLICANT: ALLANDER, TOBIAS ERIK
TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES SPECIFIC ITTLE OF INVENTION: HEPATITIS C VIRUS (HCV) E2 ANTIGEN NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             108
                                                                                                       GSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK 108
Indels
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Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Ver
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/844,215
FILING DATE: 17-APR-1997
CLASSIFICATION 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/635,109
FILING DATE: 19-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: MCCRACKEN, THOMAS P.
REGISTRATION NUMBER: 38,548
                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEE: ROBINS & ASSOCIATES
STREET: 90 MIDDLEFIELD ROAD, SUITE
CITY: MENLO PARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 80146.002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 325-7812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            72, Application US/09456090A
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91.4%;
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FORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino acid
STRANDEDNESS: si
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96; Conserv
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INFORMATION FOR
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US-09-456-090A-72
; Sequence 72, App.
; Patent No. 668020
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ZIP: 94025
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96;
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                                                                                                                                                                                                                                                                                                                     Length 226;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:

APPLICANT: Buechler, Joe
APPLICANT: Valkirs, Gunars
APPLICANT: Valkirs, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS
FILE REFERENCE: 020015-000200US
CURRENT APPLICATION NUMBER: US/09/456,090A
CURRENT FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 110
SOFTWARE: Patentin Ver. 2.1
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Pred. No. 2.6e-39;
3; Mismatches 8;
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Pred. No. 2.6e-39;
; Mismatches 8
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APPLICANT: Buechler, Joe

APPLICANT: Valkirs, Gunars

APPLICANT: Gray, Jeff

APPLICANT: Gray, Jeff

APPLICANT: Biosite Diagnostics, Inc.

APPLICANT: Biosite Diagnostics, Inc.

APPLICANT: GenPharm International

TITLE OF INVENTION: Human Antibodies

FILE REFERENCE: 020015-000110US

CURRENT APPLICATION NUMBER: US/09/453,234

CURRENT APPLICATION NUMBER: US 60/157,415

PRIOR FILING DATE: 1999-10-02

NUMBER OF SEQ ID NOS: 112

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 72

LENGTH: 226
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Patent No. 6794132
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llarity 89.0%;
Conservative
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ORGANISM: Homo sapiens
OTHER INFORMATION: M2-11L
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; OTHER INFORMATION: M2-11L
US-09-453-234-72
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Best Local Similarity
Matches 97; Conser
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LENGTH: 226
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Sequence 42, Application US/09456090A

US-09-456-090A-42

RESULT 25

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                                                                                                                                                                                                                                                                                                                                                                              Length 226;
                         GENEKAL INFORMATION:

APPLICANT: Buechler, Joe
APPLICANT: Valkirs, Gunars
APPLICANT: Gray, Jeff
APPLICANT: Lonberg, Nils
TITLE OF INVENTION: HUMAN ANTIBODIES AS DIAGNOSTIC REAGENTS
FILE REFERENCE: 020015-000200US
CURRENT APPLICATION NUMBER: US/09/456,090A
CURRENT FILING DATE: 1999-12-06
NUMBER OF SEQ ID NOS: 110
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 42
LENGTH: 226
TYPE: PRT
CREATION: M1-5L
ORGANISM: Homo sapiens
OTHER INFORMATION: M1-5L
US-09-456-090A-42
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ne : 31.5426 secs
Patent No. 6680209
GENERAL INFORMATION:
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US-09-920-137D-565 1 EIVLTQSPATLSL score Title: Perfect

. QQRSNWPPFTFGPGTKVDIK EIVLTQSPATLSLSPGERAT Sequence:

Gapext BLOSUM62 Gapop 10.0 table: Scoring

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residues 386760381 seds, 2105692 Searched

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summaries

Genesed Database

Geneseq\_16Dec04:\*
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The present sequence is that of the light chain variable region or an anti-tumour necrosis factor (TNF) antibody of the invention. The invention provides isolated human, primate, rodent, mammalian, chimeric, humanised and/or complementarity determining region (CDR)-grafted anti-TNF antibodies, immunoglobulins, cleavage products and other specified portions and variants, as well as anti-TNF antibody compositions, encoding or complementary nucleic acids, vectors, host cells, encoding or complementary nucleic acids, transgenic animals, transgenic
                                                                                                                                                                                    Tumour necrosis factor alpha; TNF; antibody; light chain; CDR; complementarity determining region; antirheumatic; antiarthritic; antiulcer; antiasthmatic; antiallergic; antiinflammatory; antisickling; antidiabetic; antiarteriosclerotic; antiatherosclerotic; vasotropic; antianginal; cardiant; antibacterial; virucide; fungicide; antileprotic; protozoacide; cytostatic; neuroprotective; antiparkinsonian; nootropic; human; diagnosis; therapy.
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myocardial infarction, leprosy.
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                                                                                                 standard; protein; 108
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2000US-0236826P
2001US-00920137
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29-SEP-2000;
01-AUG-2001;
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                                                                                          Novel isolated mammalian anti-tumor necrosis factor antitreating sickle cell anemia, diabetes, atherosclerosis, angina pectoris, myocardial infarction, leprosy.
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                                                                                                                       5; 131pp; English
            2000US-0223360P
2000US-0236826P
2001US-00920137
07-AUG-2001; 2001WO-US024785
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                                         CENTOCOR INC
                                                                     2002-217194/27
                                                                                                                                                   human monoclonal
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                                                                                                                       Example 3; Fig
            07-AUG-2000;
                   29-SEP-2000;
01-AUG-2001;
                                                       Giles-Komar
                                         (CENZ)
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Indels , DB 5; 1.1e-37; ö Pred. No. 1.. Mismatches Score 565; ·; 100.08; 100.08; 1 Similarity 100 108; Conservative Query Match Local Best Loc Matches

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Derformed using spleen cells from a hybrid mouse containing human variable and constant region antibody transgenes that was immunised with recombinant human recrosis factor (TFF) alpha. Human mabs were compliant human tumour necrosis factor (TFF) alpha. Human mabs were betained that bound immobilised human TFF alpha. Human mabs were botained that bound immobilised human TFF alpha. Human mabs were portion of the light chain variable region of 2 of the mabs, TNV14 and TNV15, were identical (see AAM51174) to the present sequence, while the light chain variable region of 2 others, TNV148(B) and TNV196 (see AAM51175), differed by a single amino acid residue. The invention of provides human, primate, rodent, mammalian, chimeric, humanised and/or complementarity determining region (CDR)-grafted anti-TNF antibody compositions, encoding or complementary nucleic acids, vectors, antibody compositions, formulations, devices, transgenic animals, as well as anti-TNF antibody compositions, and methods of making and using them. The anti-TNF carbody compositions, and methods of making and using them. The anti-TNF antibody compositions formulations, devices, transgenic animals, and methods of making and using them. The anti-TNF antibody compositions and encoding or complementary nucleic acids, vectors, transgenic plants, and methods of making and using them. TNF antibodies at least a portion of an immunoglobulin molecule, especially the heavy chain and/or light chain variable regions given in the present sequence and in AAM51165, or either all of the CDRs of the heavy chain (see AAM51165.0). The antibodies may inhibit TNF-induced cell adhesion (see Molecules, inhibit TNF binding to receptor, or provide Arthritic Index improvement in a mouse model. They are useful for diagnosing or reeating a TNF related condition in a cell, tissue, organ or animal (crown's pathology, sickle cell anemia, diabetes, a cardiovascular disease such as arteriosclerosis, athercosclerosis, restenosis, animal and fungal infections, pneumonia, leptosy and ö nt chain variable mouse used in .body, useful restenosis, Gaps ö Length 108;

Human; antibody; dual integrin; HC CDR; variable region; LC CDR; medical device; immune related disease; rheumatoid arthritis; gastric ulcer; asthma; allergic rhinitis; Crohn's pathology; sickle cell anaemia; diabetes; cardiovascular disease; arteriosclerosis; atherosclerosis; restenosis; angina pectoris; myocardial infarction; infectious disease; pneumonia; leprosy; malaria; malignant disease; leukaemia; chronic myelocytic leukaemia; multiple myeloma; neurological disease; multiple sclerosis; Parkinson's disease; Alzheimer's disease; Creutzfeldt-Jakob disease. Novel isolated mammalian anti-dual integrin antibody, useful for diagnosing or treating dual integrin related condition such as rathritis, gastric ulcer, asthma, atherosclerosis, restenosis. Human anti-dual integrin antibody 07-AUG-2000; 2000US-0223363P 01-AUG-2001; 2001US-00920267 07-AUG-2001; 2001WO-US024784 standard; peptide; (CENZ ) CENTOCOR INC WPI; 2002-217193/27 WO200212501-A2. Giles-Komar J, Homo sapiens. 21-MAY-2002 14-FEB-2002 AAU76334; Claim 1; AAU76334

The invention relates to an isolated mammalian anti-dual integrin ...

antibody having at least one of the human heavy chain or light chain ...

complementary determining region (CDR, HC CDR1-CDR3, LC CDR1-3). Also included are the nucleic acids encoding the Vector, an anti-idiotype controlled are the nucleic acids encoding the Vector, an anti-idiotype controlled to the anti-dual integrin, a medical device comprising the antibody that binds to the anti-dial intracensistic intracensistic intracensistic intracensistic intracensistic intracelebellar, intracespular, intracerticular, intracerticular, intracerticular, intracelebellar, or other routes as given in specification. The antibody is useful for diagnosing or treating a dual integrin related condition in an animal for example, immune related disease such as rheumatoid arthritis, gastric ulcer, asthma, allergic rhinitis, Crohn's pathology, arthritis, and fungal infectious disease in a cell such as bacterial, viral, and fungal infectious disease in a cell such as bacterial, viral, and fungal infections, pneumonia, leprosy, malaria, maliphe myeloma, neurological disease such as multiple creations, preumonia, leprosy, malaria, malaphe myeloma, neurological disease such as multiple myeloma, neurological diseases such as leukaemia, charcological diseases such as multiple myeloma, neurological en an anti-dual integrin human sectoria, neurological proposition delication in the sectorial and many other diseases specification. The present sequence is an anti-dual integrin human variable region containing at least one of the six CDRs listed above (AAU76327-AAU76332) English Page 134; 144pp;

rheumatoid

Snyder L,

Ö

Heavner

Score 565; DB 5; Pred. No. 1.1e-37 100.0%; larity 100.0%; Conservative Local Similarity nes 108; Conser Sequence 108 AA; Query Match Best

9 EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPA

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Gaps

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Indels

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Mismatches

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Matches

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Length 108;

RESULT 3 AAU76334

RESGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK

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This invention relates to novel mammalian CDR mimetibodies, specific portions or variants thereof. Specifically, it refers to an antibody fragment where a protein has been inserted into, or replaces a portion of, one or more CDR regions, such that each CDR mimetibody comprises at least one portion of a heavy chain or light chain variable region, which itself comprises at least one human framework region and at least one ligand binding region (LBR). The present invention describes human mimetibodies, including modified immunoglobulins and cleavage products that can be useful in gene therapy and the generation of transgenic plants and animals. Furthermore, the CDR mimetibody is useful for preparing compositions for modulating, treating or reducing the symptoms of immune, cardiovascular, infectious, malignant and/or neurologic
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                                                                                                                                                                                                                                                                                                                              ective;
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                                                                                                                                                                                                                                                                                mimetic; CDR mimetibody; gene therapy; transgenic; immune; cardiovascular; infectious; malignant; neurologic disease; anaemia; immunomodulator; cardiant; antimicrobial; cytostatic; neuroprotectierythropoietin.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          diseases, as well as anaemia. Accordingly, they exhibit immunomoccardiant, antimicrobial, cytostatic and neuroprotective activitie polypeptide sequence is an erythropoietin light chain mimetibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New CDR mimetibody comprising a portion of a heavy or light charvariable region comprising human framework or ligand binding requesful for preparing a composition for treating e.g., immune, cardiovascular or neurologic disease.
RFSGSGSGTDFTLTISSLEPEDFAVYYCQORSNWPPFTFGPGTKVDIK
                                                                                                                                                                                                                                                              chain mimetibody SeqID 989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ghrayeb
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This invention relates to novel mammalian CDR mimetibodies, specific portions or variants thereof. Specifically, it refers to an antibody fragment where a protein has been inserted into, or replaces a portion of, one or more CDR regions, such that each CDR mimetibody comprises at least one human framework region and at least one itself comprises at least one human framework region and at least one ligand binding region (LBR). The present invention describes human mimetibodies, including modified immunoglobulins and cleavage products that can be useful in gene therapy and the generation of transgenic plants and animals. Furthermore, the CDR mimetibody is useful for preparing compositions for modulating, treating or reducing the symptoms of immune, cardiovascular, infectious, malignant and/or neurologic diseases, as well as anaemia. Accordingly, they exhibit immunomodulator, cardiant, antimicrobial, cytostatic and neuroprotective activities. This polypeptide sequence is an erythropoietin light chain mimetibody of the
                                                                                                                                                                                                         mimetic; CDR mimetibody; gene therapy; transgenic; immune; cardiovascular; infectious; malignant; neurologic disease; anaemia; immunomodulator; cardiant; antimicrobial; cytostatic; neuroprotective; erythropoietin.
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Pred. No. 1.1e-37
Mismatches 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2; SEQ ID NO 990; 97pp; English.
                                                                                                                                                                                        Erythropoietin light chain mimetibody
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108; Conser
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EIVLTQSPATLSJSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNR

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esent sequence is that of the light chain variable region of antinecrosis factor (TNF) human recombinant monoclonal antibodies TNV14 and TNV15. These are human mAbs produced from a GenTNV using spleen cells from a hybrid mouse containing human variable nstant region antibody transgenes that was immunised with human TNF The human mAbs bind immobilised human TNF alpha with high avidity ve a totally human IgG1, kappa isotype. The mature portion of the chain variable region is identical to that of the Vg/38-type light
                                                                                                                complementarity determining region; antirheumatic; antiarthritic; antiulcer; antiasthmatic; antiallergic; antiinflammatory; antisickling; antidiabetic; antiarteriosclerotic; antiatherosclerotic; vasotropic; antianginal; cardiant; antibacterial; virucide; fungicide; antileprotic; protozoacide; cytostatic; neuroprotective; antiparkinsonian; nootropic; human; diagnosis; therapy; TNV14; TNV15; monoclonal antibody; mAb.
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                                                                                                                                                                                                                                                          Mature
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2000US-0236826P.
2001US-00920137.
                                                                                  TNV14,
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                   standard; protein;
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                                                                                  recombinant
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29-SEP-2000;
01-AUG-2001;
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RESULT
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chain germline sequence (see AAM51173). The light chain variable regions of 2 other human mabs (see AAM51175) show a single amino acid difference. The invention provides human, primate, mammalian, rodent, chimeric, humanised and/or complementarity determining region (CDR)-grafted antiportions and variants, as well as anti-TNF antibody compositions, compositions, formulations, devices, transgenic animals, transgenic compositions, formulations, devices, transgenic animals, transgenic plants, and methods of making and using them. The anti-TNF antibody compositions, formulations, devices, transgenic animals, transgenic plants, and methods of making and using them. The anti-TNF antibody compositions, formulations, devices, transgenic animals, transgenic sequence and in AAM51165, or either all of the CDRs of the heavy chain (see AAM51158-60) or all of the CDRs of the light chain (see AAM51161-63). The antibodies may inhibit TNF-induced cell adhesion molecules, in a mouse model. They are useful for diagnosing or treating a TNF related condition in a cell, tissue, organ or animal (claimed) such as the pathology, sickle cell anaemia, diabetes, a cardiovascular disease such as atteriosclerosis, atherosclerosis, restenosis, angina pectoris or myccardial infaction, an infectious disease in a cell such as multiple will crantic myclocytic leukaemia, Burkitt's crantional and multiple myeloma, or a neurological disease and such as multiple seconds or a neurological disease and such as multiple seconds or a neurological disease and and multiple myeloma, or a neurological disease and and multiple myeloma, or a neurological disease and and multiple myeloma, or a neurological disease and
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Pred. No. 1.3e-37;
Mismatches 0;
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/label=
55. .69
/label=
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The present sequence is that on the institution variable sequence is that one trees is factor (TMP) human recombinant monoclonal antibodies (mabs) TNV148(B) and TNV196. These are human mabs produced from a GenTNV clusion using spleen cells from a hybrid mouse containing human variable and constant region antibody transgenes that was immunised with human TNF alpha. The human mabs bind immobilised human TNF alpha with high avidity and have a totally human igst, kappa isotype. The mature portion of the light chain variable region differs from that of the Vg/38-type light chain germline sequence (see AAMS1173) by a single residue (Tyr-50 teplacing Ser). The light chain variable regions of 2 other human mabs (see AAMS1174) were identical to the germline sequence. The invention provides isolated human, primate, rodent, mammalian, chimeric, humanised and/or complementarity determining region (CDR)-grafted anti-TNF antibodies, immunoglobulins, cleavage products and other specified portions and variants, as well as anti-TNF antibody compositions, formulations, devices, transgenic animals, transgenic plants, and methods of making and using them. The anti-TNF antibody compositions, compressed at least a portion of an immunoglobulin molecule, especially the heavy chain and/or light chain variable regions given in the present sequence and in AAMS1165, or either all of the CDRs of the heavy chain (see AAMS1158-60) or all of the CDRs of the light chain (see AAMS1161-63). The antibodies may inhibit TNF-induced call adhesion molecules in inhibit TNF binding to receptor, or provide Arthritic Index improvement in a mouse model. They are useful for diagnosing or treating a TNF related condition in a cell, tissue, organ or animal (claimed) such as theumatoid arthritis, gastric ulcer, asthma, allergic rhinitis, dastric ulcer, asthma, allergic rhinitis, correction an infertion a resterior animal collar animal and resterior animal collar animal and resterior animal collaring and resterior animal collar animal collar animal collar anim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mammalian anti-tumor necrosis factor antibody, usefu cell anemia, diabetes, atherosclerosis, restenosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    coardial infarction, an infectious disease in a cell such as large, and fungal infections, pneumonia, leprosy and malaria, a sease such as leukaemia, chronic myelocytic leukaemia, Burkitt mphoma and multiple myeloma, or a neurological disease such as lerosis, Parkinson's disease, spinal ataxia.
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2000US-0236826P.
2001US-00920137.
                                                                        109. .118
/label= CDR3
119. .129
/label= J3
                     CDR2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Creutzfeldt-Jakob disease
                                      .108
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   treating sickle cangina pectoris,
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                                                                                                                                                                                                                                                                                                                                                                                                   Giles-Komar J,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   isolated
                                                                                                                                                                         WO200212502-A2
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29-SEP-2000;
01-AUG-2001;
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core 565; Dred. No. 1.3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
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                       80
                                                                                                                                                                                                                          3-F2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New human monoclonal antibody that specifically binds to growth factor receptor HER2/neu, for treating, preventing or diagnosing diseases characterized by aberrant HER2/neu expression e.g. cancers.
EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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                                             RESGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK
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Pred. No. 2.9e-36;
3; Mismatches 1
                                                                                                                                                                                                 Human anti-HER2/neu antibody 2-E8 light chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     110; 113pp; English.
                                                                                                                                                                                                                          Human; HER2; neu; erbB2; oncogene; 1-D2; 2-E8; growth factor receptor
                                                                                                                              AAB72884 standard; protein; 108
                                                                                                                                                                                                                                                                                                                                                      29-JUL-1999; 99US-0146313P
10-MAR-2000; 2000US-0188539P
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Similarity 96.3%;
4; Conservative
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B; AAF75590.
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                                                                                                                                                                                                                         HER2;
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N-PSDB;
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                                                                                                                                                                                                                                                                                              Boyle WJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present invention describes an isolated human antibody (I) that specifically binds osteoprotegerin ligand (OPGL). Also described: (1) a pharmaceutical composition comprising a pharmaceutical carrier and a the rapeutic amount of (I); (2) methods of treating an osteopenic disorder in a patient, comprising administering to a patient the pharmaceutical composition of (I) or a pharmaceutical amount of (I); and (3) a method for detecting OPGL in a biological sample, comprising contacting the sample with (I) under conditions that allow for binding of the antibody to opteopathic, and measuring the level of bound antibody in the sample. (I) has osteopathic, antiarthritic and cytostatic activities, and can be used in gene therapy. The composition and methods are useful in diagnosing or treating bone disorders, such as osteoporosis, bone loss from arthritis, baget's disease or osteopenia. The antibody (I) may also be used for detecting OPGL in biological samples and in identifying cells or tissues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
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                                                                                                                human; antibody; osteoprotegerin ligand; OPGL; osteopenic disorder; osteopathic; antiarthritic; cytostatic; gene therapy; bone disorder; osteoporosis; bone loss; arthritis; Paget's disease; osteopenia.
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                                                                                                                                                                                                                                                                                                                                                                                                                            New isolated antibody that specifically binds osteoprote useful for diagnosing or treating bone disorders, such a bone loss from arthritis, Paget's disease or osteopenia.
                                                                                     antibody kappa chain variable region
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Pred. No. 2.9e-36;
; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 6; SEQ ID NO 24; 156pp; English
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 Æ
protein; 109
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ilarity 96.3%;
Conservative
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standard;
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104; Conser
                                                                                                                                                                                                                                                                                                                        (AMGE-) AMGEN INC.
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                                                                                      anti-OPGL
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                                                         12-FEB-2004
                                                                                                                                                                                                                                    23-OCT-2003
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ADF11411
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                                                                                                                                                                                                                                                                                                                                                         Boyle
                                                                                                                                                                          Ношо
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Matches
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The present invention describes an isolated human antibody (I) that specifically binds osteoprotegerin ligand (OPGL). Also described: (1) a pharmaceutical composition comprising a pharmaceutical carrier and a therapeutic amount of (I); (2) methods of treating an osteopenic disorder in a patient, comprising administering to a patient the pharmaceutical composition of (I) or a pharmaceutical amount of (I); and (3) a method for detecting OPGL in a biological sample, comprising contacting the sample with (I) under conditions that allow for binding of the antibody in the sample. (I) has costeopathic, and measuring the level of bound antibody in the sample. (I) has osteopathic, antiarthritic and cytostatic activities, and can be used in treating bone disorders, such as osteoporosis, bone loss from arthritis, baget's disease or osteopenia. The antibody (I) may also be used for detecting OPGL in biological samples and in identifying cells or tissues that produce the protein. The present sequence represents a sequence the protein the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated antibody that specifically binds osteoprotegerin ligand, useful for diagnosing or treating bone disorders, such as osteoporosis bone loss from arthritis, Paget's disease or osteopenia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EIVLTOSPATLSLSPGERATLSCRASOSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human; antibody; osteoprotegerin ligand; OPGL; osteopenic disorder; osteopathic; antiarthritic; cytostatic; gene therapy; bone disorder; osteoporosis; bone loss; arthritis; Paget's disease; osteopenia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Huang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
16El anti-OPGL antibody light chain SEQ ID NO:48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Elliott RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         547; DB 7;
No. 5.6e-36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score
Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sullivan JK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          æ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   48; 156pp;
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                                                                                                                                                                                                                                                                                                                                                                                                              05-APR-2002; 2002US-0370407P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          96.8%;
96.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-845253/78.
N-PSDB; ADF11434.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Medlock
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (AMGE-) AMGEN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 215 AA;
                                                                                                                                                                                                                                    WO2003086289-A2
                                                                                                                                                                              Homo sapiens.
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The present sequence is that of human anti-interleukin-1 receptor type 1 (IL-IR1) monoclonal antibody (MAb) 26F5 kappa chain variable region. Human MAbs to IL-IR1 were prepared using the HCO7 strain of transgenic wich purified recombinant IL-IR1, and splenocytes from immunised mice were fused to a mouse myeloma cell line to generate hybridomas. Hybridomas which secreted a MAb that bound with high avidity to IL-IR1 were gelected. The MAbs inhibit IL-1 signalling by competing with IL-1 beta and IL-lalpha binding to IL-IR. These MAbs, as well as single chain antibodies single chain Fv antibodies. Fab antibodies from them, are used in methods of treating and (Fab')2 antibodies decetting the amount of IL-IR1 in a sample. IL-1 mediated diseases include acute pancreatitis, amyotrophic lateral sclerosis, Alzheimer's disease, cachexia, anorexia, asthma, atherosclerosis, autoimmune vasculitis, chronic fatigue syndrome. Clostridium associated illnesses, coronary conditions, cancer including leukaemia and tumour metastasis, diabetes, endometriosis, fever, fibromyalgia, glomerulonephritis, graft versus host disease, cstematoid arthritis, inflammatory eye disease, ischaemia, Kawasaki's disease, learning impairment, lung disease, multiple sclerosis, multiple sclerosis, pain, parkinson's disease, multiple sclerosis, multiple sclerosis, pain, parkinson's disease, multiple sclerosis, pain, parkinson's disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      to IL-1R1 with IL-single chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antibodies
Is of treating
                                                                        idiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          n a sample.
lateral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sion injury,
mandibular
ttory condition
                                                                                                                                                                                                                                                                                                                                                                                                                                                        receptor
ch as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                trauma, orthopaedic
Human; monoclonal antibody; antibody; interleukin-1; receptor;
antiasthmatic; antiinflammatory; dermatological; antiallergic;
protozoacide; antirheumatic; antiarthritic; osteopathic; vasotropic;
analgesic; antidiabetic; nephrotropic; antianaemic; nootropic;
anticonvulsant; dermatological; antigout; antiparkinsonian; antidiab
                                                                                                                                                                                                                                                                                                                                                                                                                                                      / binds interleukin-1 remediated diseases such inflammatory conditions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          vasaki's disease, rearmonders, pain, Parkinson's rosis, myopathy, osteoporosis, pain, Parkinson's isease, pre-term labour, psoriasis, reperfusion isease, pre-term labour, psoriasis, reperfusion isease, pre-term labour, psoriasis, remporal mancelede effects of radiation therapy, temporal mancelede effects of radiation therapy, or an inflammatory
                                                                                                                                                                                                                                                                                                                                               Huang H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 128;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; DB 8; Le
4.1e-36;
2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         from strain, sprain, cartilage damage, nfection or other disease processes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Isolated human antibody that specifically binds type 1 (IL-1R1) useful for treating IL-1 mediate rheumatoid arthritis, osteoarthritis and inflamm
                                                                                                                                                                                                                                                                                                                                              Martin
                                                                                                                                                                                                                                                                                                                                            ×
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 546;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           English
                                                                                                                                                                                                                                                                                                                                              Qian
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           179pp;
                                                                                                                                                                                                                                     2003WO-US027978
                                                                                                                                                                                                                                                                        2002US-0408719P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97.28;
                                                                                                                                                                                                                                                                                                                                              Witte
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12;
                                                                                                                                                                                                                                                                                                                                           ບັ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            disease,
                                                                                                                                                                                                                                                                                                                                                                                                 2004-248462/23
B; ADM41546.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                          AMGEN INC.
                                                                                                                                                                                                                                                                                                                                              Vezina
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 128 AA;
                                                                                                                                                              WO2004022718-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           eptic shock, soint disease,
                                                                                                                            sapiens.
                                                                                                                                                                                                                                   05-SEP-2003;
                                                                                                                                                                                                                                                                      06-SEP-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             periodontal
                                                                                                                                                                                                   18-MAR-2004
                                                                                                                                                                                                                                                                                                                                    В,
G;
                                                                                         cytostatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  resulting
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                                                                                                                                                                                                                                                                                                           (AMGE-)
                                                                                                                                                                                                                                                                                                                                                                                                                  N-PSDB;
                                                                                                                                                                                                                                                                                                                                                            Elliott
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                                               Varnum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim
                                                                                                                            Homo
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The present sequence is that of the light chain variable region of human anti-tumour necrosis factor (TNF) monoclonal antibody 9E7. This human TNF reactive IgG monoclonal antibody was generated by cloning variable and constant region DNA in vector pC4 and expression in CHO cells. The invention provides isolated human, primate, rodent, mammalian, chimeric, humanized and/or CDR-grafted anti-TNF antibodies, immunoglobulins, their cleavage products, other specified portions and variants, as well as anti-TNF antibody compositions, nucleic acids encoding these, vectors, host cells, methods for producing the antibodies using a host cell, transgenic animal or transgenic plant or plant cell, and therapeutic compositions, methods and devices. The antibody, nucleic acid, protein, composition and methods are useful for diagnosing or treating an anti-TNF related condition, e.g. cancer, anorexia, cachexia, or an immune, cardiovascular,
                                                                                                                                          factor; TNF; antibody; cytostatic; anabolic;
immunomodulator; antimicrobial; cardiovascular-gen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antibody, useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New isolated mammalian anti-tumor necrosis factor (TNF) antibody, usefy for diagnosing or treating an anti-TNF related condition, e.g. cancer, anorexia, cachexia, or bacterial infection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21 EIVLTOSPATLSLSPGERATLSCRASOSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 130;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESGSGSGTDFTLTISSLEPEDFAVYYCOORSNWPPFTFGPGTKVDIK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 81 RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPLTFGGGTKVEIK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                variable
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Pred. No. 4.2e-36;
Mismatches
                                                                                                               chain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    e.g. cancer, anorexia, caches and/or neurological disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Carton
                                                                                                                                                                                                                            Location/Qualifiers
                                                                                                              light
                            ADD89877 standard; protein; 130 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1;
                                                                                                                                          Tumour necrosis factor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1; Fig 3B; 87pp; English
                                                                                                                                                                                                                                       .54
-a= "CDR1"
                                                                                                                                                                                                                                                                    .71
-- "CDR2"
                                                                                                                                                                                                                                                                                                                "CDR3"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         96.6%;
ilarity 97.2%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                     2003WO-US009072
                                                                                                                                                                                                                                                                                                                                                                                                                                2002US-0367903P
                                                                                                               9E7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BJ,
                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                .118
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Scallon
                                                                                                               anti-TNF antibody
                                                                                                                                                                                                                                                        /note=
65. .71
/note=
109. .1
                                                                                                                                                                                                                                                                                                                /note=
                                                                                                                                                       eating-disorders-gen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            (CENZ ) CENTOCOR INC.
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                                                                                                                                                                                                                                            44
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Best Local Similarity
Matches 105; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB; ADD89883
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                                                                                                                                                                    neuroprotective
                                                                                                                                                                                                                                                                                                                                             WO2003083061-A2
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                                                                                                                                                                                                                                                                                                                                                                                                     24-MAR-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                              26-MAR-2002;
                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Giles-Komar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    infectious,
                                                                                   29-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                         09-OCT-2003
                                                        ADD89877;
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                                                                                                                                            Human;
                                                                                                                                                                                                                                            Region
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                                                                                                                Human
RESULT 1
ADD89877
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Gaps

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Indels

Mismatches

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Conservative

105;

Matches

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EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPA

RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK 

61

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81

80

108

Tumour necrosis factor; TNF; immunotherapy; TNF related diseases; obesity; immune related disease; rheumatoid arthritis; cardiovascular disease; stroke; malignant disease; leukaemia; neurological disease; multiple sclerosis; infection; hepatitis; anorectic; antiarthritic; cerebroprotective; vasotropic; cytostatic; neuroprotective; antibacterial; antiinflammatory; hepatotropic; viruanti-TNF antibody; human; light chain.

region protein

chain variable

anti-TNF antibody light

entry)

(first

16-DEC-2004

ADS64653

130 AA

ADS64653 standard; protein;

.rag

-920-137d-8

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virucide;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ful for
thritis.
                                                                                                                                                                                                                                                         Tumour necrosis factor; TNF; immunotherapy; TNF related diseases; obesity; immune related disease; rheumatoid arthritis; cardiovascular disease; stroke; malignant disease; leukaemia; neurological disease; multiple sclerosis; infection; hepatitis; anorectic; antiarthritic; cerebroprotective; vasotropic; cytostatic; neuroprotective; antibacterial; antiinflammatory; hepatotropic; viruhuman; 9E7LC; light chain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  plated mammalian anti-tumor necrosis factor (TNF) alpha if inhibiting binding of TNF alpha to TNF receptor, use TNF-related diseases such as obesity or rheumatoid art
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 130;
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Pred. No. 4.2e-36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Carton JM;
                                                    standard; protein; 130 AA
                                                                                                                                                                                                           chain protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         45pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-MAR-2003; 2003US-00394471.
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ilarity 97.2%;
Conservative
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                                                                                                                                                          entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SCALLON B J. CARTON J M.
                                                                                                                                                        (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GILES-KOMAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-676151/66
N-PSDB; ADS64661.
                                                                                                                                                                                                         light
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4; Fig 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 130 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US2004185047-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       isolated
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-MAR-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                           9E7LC
                                                                                                                                                        16-DEC-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          capable of
treating TN
                                                                                                    ADS64664;
                                                  ADS64664
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Best Local
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(CART/)
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                                                                                                                                                                                                              Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel
RESULT
ADS6466
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Novel isolated mammalian anti-tumor necrosis factor (TNF) alpha antibody capable of inhibiting binding of TNF alpha to TNF receptor, useful for treating TNF-related diseases such as obesity or rheumatoid arthritis.

Claim 1; SEQ ID NO 16; 45pp; English.

treating

Carton JM;

Scallon BJ,

Giles-Komar J,

WPI; 2004-676151/66

21-MAR-2003; 2003US-00394471.

US2004185047-A1.

23-SEP-2004.

Homo sapiens.

2003US-00394471

21-MAR-2003;

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GILES-KOMAR SCALLON B J. CARTON J M.

(GILE/) (SCAL/) (CART/)

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The present invention relates to a mammalian anti-tumour necrosis factor (TNF) antibody capable of inhibiting binding of TNF alpha to TNF receptor. The invention is useful for diagnosing or treating an anti-TNF related condition in a cell, tissue, organ or animal and in immunotherapy. The invention is also useful for treating TNF related diseases chosen from obesity, immune related disease such as rheumatoid arthritis, cardiovascular disease such as stroke, malignant disease such as leukaemia, neurological disease such as multiple sclerosis and bacterial or viral infections such as hepatitis. The present sequence is the human anti-TNF antibody light chain variable region protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 130;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 546; DB 8; Length 13
Pred. No. 4.2e-36;
; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       B
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H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       96.6%;
llarity 97.2%;
Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 Similarity
105; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 130 AA;
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Best Local
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Gaps

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Indels

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ATGIPA

RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK 108

61

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RESULT 14

21

S S

EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNR

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Similarity

105;

Matches

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-920-137d-8

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The present sequence is that or a numan anti-interleuxin-1 receptor type (IL-1R1) monoclonal antibody (MAb) light chain. The invention provides antibodies that comprise this sequence. Human MAbs to IL-1R1 were prepared using the HCo7 strain of transgenic mice, which expresses human antibody genes. These mice were immunised with purified recombinant IL-1R1, and splenocytes from immunised mice were fused to a mouse myeloma cell line to generate hybridomas. Hybridomas which secreted a MAb that bound with high avidity to IL-1R1 were selected. The MAbs inhibit IL-1 signalling by competing with IL-1beta and IL-1alpha binding to IL-1R. These MAbs, as well as single chain antibodies and (Fab') antibodies are used in methods of treating IL-1 mediated diseases or for detecting the amount of IL-1R1 in a sample. IL-1 mediated diseases include acute pancreatitis, amyotrophic lateral sclerosis, Alzheimer's disease, cachexia, anorexia, asthma, atherosclerosis, autoimmune coronary conditions, cancer including leukaemia and tumour metastasis, diabetes, endometriosis, fever, fibromyalgia, glomerulonephritis, unflammatory versus host disease, osteoarthritis, rheumatoid arthritis, inflammatory eye disease, ischaemia, Rawasaki's disease, learning impairment, lung eye disease, lischaemia, Rawasaki's disease, learning impairment, lung
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         temporal
an inflammatory
e, trauma,
                                                                                                                                                              idiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     anti-interleukin-1 receptor type
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n, Parkinson's
reperfusion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Isolated human antibody that specifically binds interleukin-1 receptor
type 1 (IL-1R1) useful for treating IL-1 mediated diseases such as
rheumatoid arthritis, osteoarthritis and inflammatory conditions.
                                                                                                                          opic;
                                                                           Human; monoclonal antibody; antibody; interleukin-1; receptor; antiasthmatic; antiinflammatory; dermatological; antiallergic; protozoacide; antirheumatic; antiarthritic; osteopathic; vasotranalgesic; antidiabetic; nephrotropic; antianaemic; nootropic; anticonvulsant; dermatological; antigout; antiparkinsonian; anti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     diseases, multiple sclerosis, myopathy, osteoporosis, pain, Par
disease, periodontal disease, pre-term labour, psoriasis, reper
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Huang H;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       injury, septic shock, side effects of radiation therapy, to mandibular joint disease, sleep disturbance, uveitis, or an condition resulting from strain, sprain, cartilage damage, orthopaedic surgery, infection or other disease processes.
                                          chain
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                                         Anti-interleukin-1 receptor type 1 antibody light
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The present sequence is that of a human
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Qian X,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 38; 179pp; English
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  entry)
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  (first
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N-PSDB; ADM41572.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vezina
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                                                                                                                                                                                                                                                              WO2004022718-A2
                                                                                                                                                                                                                         Homo sapiens
   03-JUN-2004
                                                                                                                                                                                                                                                                                                     18-MAR-2004
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                                                                                                                                                                                 cytostatic
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0 9 ATGIPA Gaps CRASOSVSSYLAWYQQKPGQAPRLLIYDASNR Length 235; Indels Score 546; DB 8; 1 Pred. No. 7.3e-36; ; Mismatches 2; SLSPGERATLS 1; 96.6%; ilarity 97.2%; Conservative EIVLTQSPATL l Similarity 105; Conser Query Match Best Local S Matches 105 Н

ATGIPA EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNR RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK 21 61

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128 

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human; antibody; mAb 3G6; lymphocyte migration; inflammatory bowel disease; Crohn's disease; gastroenteritis; pulmonary inflammatory disease; asthma; chronic bronchitis; graft rejection; psoriasis; eczema; urticaria; scleroderma; autoimmune disease; multiple sclerosis; diabetes; glomerulonephritis; autoimmune thyroiditis; Behcet's syndrome; viral infection; cancer; neoplastic disease; leukaemia; lymphoma; antiinflammatory; antiasthmatic; immunosuppressive; antipsoriatic; dermatological; neuroprotective; antidiabetic; nephrotropic; virucide; cytostatic; vasotropic; alphaE-beta7.
                                                          9
                                                           antibody protein SegID
                                                          chain variable region of human mAb 3G6
        Æ
       108
       standard; protein;
                                          entry)
                                          (first
                                          18-NOV-2004
                        ADS19298;
       ADS19298
                                                          Light
ADS19
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Homo sapiens.

US2003232387-A1

18-DEC-2003

2002US-00173551 14-JUN-2002; 2002US-00173551 14-JUN-2002; (MILL-) MILLENNIUM PHARM INC

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2004-178738/17 N-PSDB; ADS19297 WPI;

antibody which binds activated alpha-E integrin, specifically tion-induced epitope on integrin alpha-E chain (CD103), usefuing inflammatory bowel diseases e.g., Crohn's disease, activation-induced epitope ctreating inflammatory bowel gastroenteritis. Novel

9; 67pp; English Disclosure; SEQ ID NO

This invention relates to novel antibody and antigen-binding fragments of antibodies that bind alphaE-beta7 integrin chains (CD103). Specifically, it refers to the binding of activation induced epitopes present on activated alphaE integrins, where these integrins are activated by exposure to divalent cations (e.g. Mn2+), to phorbol esters or suitable growth factors and/ or mitogens. The present invention describes the alphaE-beta7 integrin as a homing receptor that mediates lymphocyte migration to mucosal epithelium. As such, compositions of this invention are useful for treating a subject having an inflammatory bowel disease such as asthma and chronic bronchitis. Furthermore, such compositions can be used for inhibiting graft rejection, psoriasis, compositions can be used for inhibiting graft rejection, psoriasis, commonsitions and be used for inhibiting graft rejection, psoriasis, corema, urticaria, scleroderma, autoimmune diseases such as multiple sclerosis, diabetes, glomerulonephritis, autoimmune thyroiditis, Behcet's syndrome, viral infections, cancer and/or neoplastic diseases such as leukaemias and lymphomass Accordingly, they exhibit antiinflammatory, antiasthmatic, immunosuppressive, antipsoriatic, dermatological, neuroprotective, antidiabetic, nephrotropic, virucide, cytostatic and vasotropic activities. This polypeptide sequence is a human antibody that binds the integrin alphaE chain of the invention.

Sequence 108 AA;

80

108

8 DB 544; Score 6.38;

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The present invention describes an isolated human antibody (I) that specifically binds osteoprotegerin ligand (OPGL). Also described: (1) a pharmaceutical composition comprising a pharmaceutical carrier and a therapeutic amount of (I); (2) methods of treating an osteopenic disorder in a patient, comprising administering to a patient the pharmaceutical composition of (I) or a pharmaceutical amount of (I); and (3) a method for detecting OPGL in a biological sample, comprising contacting the sample with (I) under conditions that allow for binding of the antibody to OPGL, and measuring the level of bound antibody in the sample. (I) has osteopathic, antiarthritic and cytostatic activities, and can be used in treating bone disorders, such as osteoporosis, bone loss from arthritis, baget's disease or osteopenia. The antibody (I) may also be used for detecting OPGL in biological samples and in identifying cells or tissues that produce the protein. The present sequence represents a sequence the protein. The present sequence represents a sequence
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or tissues
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oporosis,
                                                                      ATGIPA
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                                            ATGIPA
                  Gaps
                                                                                                                                                                                                                                                                                                                   human; antibody; osteoprotegerin ligand; OPGL; osteopenic disorder; osteopathic; antiarthritic; cytostatic; gene therapy; bone disorder; osteoporosis; bone loss; arthritis; Paget's disease; osteopenia.
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                                           EIVLTOSPATLSLSPGERATLSCRASOSVSSYLAWYOOKPGOAPRLLIYDASNR
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                                                                                                                                                                                                                                                                                         anti-OPGL antibody kappa chain variable region SEQ ID NO:8
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                Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      that specifically binds osteoprotegerin or treating bone disorders, such as osteis, Paget's disease or osteopenia.
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                                                                                                                RESGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK
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                Indels
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                2
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5e-36;
                Mismatches
 Pred. No.
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                                                                                                                                                                                                      Æ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-APR-2002; 2002US-0370407P
                                                                                                                                                                                                    standard; protein;
  97.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated antibody that useful for diagnosing or t
                                                                                                                                                                                                                                                              entry)
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                Conservative
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                                                                                                                                                                                                                                                             (first
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N-PSDB; ADF11394.
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l Similarity
105; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (AMGE-) AMGEN INC
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                                                                                                                                                                                                                                                             12-FEB-2004
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                                                                                                                                                                                                                                ADF11395;
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                                                                                                   61
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   Local
             Matches
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The present invention describes an isolated human antibody (I) that specifically binds osteoprotegerin ligand (OPGL). Also described: (1) a pharmaceutical composition comprising a pharmaceutical carrier and a therapeutic amount of (I); (2) methods of treating an osteopenic disorder in a patient, comprising administering to a patient the pharmaceutical composition of (I) or a pharmaceutical amount of (I); and (3) a method for detecting OPGL in a biological sample, comprising contacting the sample with (I) under conditions that allow for binding of the antibody to OPGL, and measuring the level of bound antibody in the sample. (I) has osteopathic, antiarthritic and cytostatic activities, and can be used in the reating bone disorders, such as osteoporosis, bone loss from arthritis, reating bone disorders, such as osteoporosis, bone loss from arthritis, beget's disease or osteopenia. The antibody (I) may also be used for detecting OPGL in biological samples and in identifying cells or tissues that produce the protein. The present sequence represents a sequence which is used in the exemplification of the present invention.
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                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated antibody that specifically binds osteoprotegerin ligand, useful for diagnosing or treating bone disorders, such as osteoporosis, bone loss from arthritis, Paget's disease or osteopenia.
CRASQSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ξ
                                                                                                                                                                                                                                                                     human; antibody; osteoprotegerin ligand; OPGL; osteopenic disorder; osteopathic; antiarthritic; cytostatic; gene therapy; bone disorder osteoporosis; bone loss; arthritis; Paget's disease; osteopenia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK
                                           RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Martin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1;
                                                                                                                                                                                                                                          anti-OPGL antibody light chain SEQ ID NO:32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 542; DB 7;
Pred. No. 1.4e-35;
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94.4%;
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B; ADF11418.
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                                                                                                                                                                                ADF11419;
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Gaps

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Indels

Score 542; DB Pred. No. 7.3e-5; Mismatches

Similarity 94.4%; 2; Conservative

102;

Matches

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Query Match Best Local

5;

Length 109;

9

**EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQAPRLLIYDASNRATGIPA** 

RESULT ADI2213

standard; protein; 108 AA AD122138

ADI22138;

(first 22-APR-2004

EQ:101 autoantibody related light chain amino acid L76 Anti-platelet

ition; inhibition; purpura; platelet aggregation inhib purpura; haemostatic; anticoagulant autoantibody; blood clotting
inhibition; anti-platelet autoantibody; thrombus; platelet adhesion thrombotic thrombocytopenic idiopathic thrombocytopenic thrombolytic; human.

Homo sapiens Synthetic.

WO2004005890-A2

15-JAN-2004.

2003WO-US021304 03-JUL-2003; 03-JUL-2002; 2002US-0394352P 18-SEP-2002; 2002US-0411694P

PENNSYLVANIA. (UYPE-) UNIV

DI.; Siegel

WPI; 2004-142998/14 N-PSDB; ADI22085.

Claim 12; SEQ ID NO 101; 232pp; English.

The present invention describes a method (M1) for identifying an antipoducing an antibody (I) in a mammal. The autoantibody is detected by producing an antibody phase display library from B-lymphocytes obtained from the mammal, and screening the library to detect a phase that capering comparises panning the phase on intact platelets using competitive cellscapering the phase on intact platelets using competitive cellscarface panning. Also described: (I) an autoantibody identified by (M1); (2) an isolated nucleic acid encoding an anti-platelet autoantibody; (3) inhibiting (M2) blood clotting in a mammal having a thrombus or at risk of thrombus formation; (4) reversibly (M3) inhibiting blood clotting in a mammal having a thrombus or at risk of thrombus formation; (5) inhibiting (M4) binding of an anti-platelet autoantibody with a platelet component; (6) inhibiting (M3) platelet adhesion in a mammal; (8) inhibiting (M6) platelet aggregation, (9) inhibiting (M8) platelet dinction; (11) inhibiting (M1) binding of an anti-platelet autoantibody, or its biologically active fragment with a platelet autoantibody with a platelet, (12) identifying (M1) a peptide that inhibits binding of an anti-platelet autoantibody, with a platelet, (13) appetide that inhibiting platelet autoantibody, (15) treating (M12) idiopathic thrombocytopenic purpura (ITP) in a mammal; and (16) a kit for reversibly inhibiting blatelet activation comprising an amount of an anti-platelet autoantibody, (15) treating (M12) idiopathic thrombocytopenic platelet autoantibody, (15) a kit for reversibly inhibiting blatelet activation comprising an amount of an anti-platelet autoantibody, or its biologically active fragment that anti-platelet autoantibody, the kit further comprising a peptide autoantibody, or its fragment comprises an antigen binding region derived from an H4414 anti-platelet autoantibody, the kit further comprising a peptide anti-platelet autoantibody, or the antoantibodies (1) has been ensethed and an instructions for use. (1) has haemostati ytopenic iting blood function t and diagnosing clotting in a (5) inhibiting or and an instructions for use. (I) has haemostatic, anticoagulant and thrombolytic activities. The autoantibodies (I) are useful for diagno and for developing therapeutics for diseases mediated by autoantibody

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The present invention describes an isolated human antibody (I) that specifically binds osteoprotegerin ligand (OPGL). Also described: (1) a pharmaceutical composition comprising a pharmaceutical carrier and a therapeutic amount of (I); (2) methods of treating an osteopenic disorder in a patient, comprising administering to a patient the pharmaceutical composition of (I) or a pharmaceutical amount of (I); and (3) a method for detecting OPGL in a biological sample, comprising contacting the sample with (I) under conditions that allow for binding of the antibody to OPGL, and measuring the level of bound antibody in the sample. (I) has osteopathic, antiarthritic and cytostatic activities, and can be used in gene therapy. The composition and methods are useful in diagnosing or treating bone disorders, such as osteoporosis, bone loss from arthritis, cations of the antibody (I) may also be used for detecting OPGL in biological samples and in identifying cells or tissues that produce the protein. The present sequence represents a sequence
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  treating
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binding with platelet antigens. (M6) and (M12) are useful for treating thrombocytopenic purpura and idiopathic thrombocytopenic purpura, respectively. (M2) and (M3) are useful for inhibiting blood clotting. The present sequence is used in the exemplification of the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human, antibody; osteoprotegerin ligand; OPGL; osteopenic disord osteopathic; antiarthritic; cytostatic; gene therapy; bone disor osteoporosis; bone loss; arthritis; Paget's disease; osteopenia.
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Pred. No. 8.8e-36;
3; Mismatches 2;
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ilarity 95.4%;
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N-PSDB; ADF11402.
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103; Conser
                                                                                                         108 AA;
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9H7 anti-OPGL
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ADF11439
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                                                                                                                                     chain variable region SEQ ID NO:28
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osteopathic; antiarthritic; cytostatic; gene therapy; bone diso
osteoporosis; bone loss; arthritis; Paget's disease; osteopenia
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  the present invention
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                                                                                                                                                                              RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK
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1.1e-35;
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                                                          Score 540; DB Pred. No. 1.1e-4; Mismatches
 the exemplification of
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                                                          95.6%;
larity 94.4%;
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N-PSDB; ADF11414.
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is used in
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Matches
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ADF11415
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The present invention describes an isolated human antibody (I) that specifically binds osteoprotegerin ligand (OPGL). Also described: (1) a pharmaceutical composition comprising a pharmaceutical carrier and a therapeutic amount of (I); (2) methods of treating an osteopenic disorder in a patient, comprising administering to a patient the pharmaceutical composition of (I) or a pharmaceutical amount of (I); and (3) a method for detecting OPGL in a biological sample, comprising contacting the sample with (I) under conditions that allow for binding of the antibody to OPGL, and measuring the level of bound antibody in the sample. (I) has osteopathic, antiarthritic and cytostatic activities, and can be used in gene therapy. The composition and methods are useful in diagnosing or treating bone disorders, such as osteoporosis, bone loss from arthritis, Paget's disease or osteopenia. The antibody (I) may also be used for detecting OPGL in biological samples and in identifying cells or tissues that produce the protein. The present sequence represents a sequence the protein is used in the exemplification of the present invention.
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; DB 7;
1.1e-35;
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Pred. No. 2e-35;
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 Score
Pred.
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ilarity 94.4%;
Conservative
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95.6%;
94.4%;
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N-PSDB; ADF11438.
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                        Similarity
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                             ABP57362;
                                                                                                               ABP57362
   61
                                                                                                                                                                                                                                                            antibody
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                                                                                                                                                                                                                                             Human;
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Matches
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                                                                               RESULT
ABP5736
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention describes an isolated human antibody (I) that specifically binds osteoprotegerin ligand (OPGL). Also described: (1) a pharmaceutical composition comprising a pharmaceutical carrier and a therapeutic amount of (I); (2) methods of treating an osteopenic disorder in a patient, comprising administering to a patient the pharmaceutical composition of (I) or a pharmaceutical amount of (I); and (3) a method in a patient of (I); and (I) a method in a patient of (I); and (I) a method in a patient of (I); and (I) a method in a composition of the antibody in the sample. (I) has consteopathic, antiarthritic and cytostatic activities, and can be used in gene therapy. The composition and methods are useful in diagnosing or treating bone disorders, such as osteoporosis, bone loss from arthritis, agent's disease or osteopenia. The antibody (I) may also be used for detecting OPGL in biological samples and in identifying cells or tissues that produce the protein. The present sequence represents a sequence which is used in the exemplification of the present invention.
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ATGIPA
porosi
                                                                                                                                                                                                                                                                                                       human; antibody; osteoprotegerin ligand; OPGL; osteopenic disorder; osteopathic; antiarthritic; cytostatic; gene therapy; bone disorder; osteoporosis; bone loss; arthritis; Paget's disease; osteopenia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ligand
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated antibody that specifically binds osteoprotegerin luseful for diagnosing or treating bone disorders, such as osteogone loss from arthritis, Paget's disease or osteopenia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     F)
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                                                             RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Martin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Elliott RL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7;
                                                                                                                                                                                                                                                                         antibody light chain SEQ ID NO:40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 540; DB 7;
Pred. No. 2e-35;
1; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sullivan JK,
                                                                                                                                                                             215
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2003WO-US010749
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|| Similarity 94.4%;
| 102; Conservative
                                                                                                                                                                            ADF11427 standard; protein;
                                                                                                                                                                                                                                            entry)
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N-PSDB; ADF11426.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          215 AA;
                                                                                                                                                                                                                                                                           2D8 anti-OPGL
                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     07-APR-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Boyle WJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 102
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ADF11427
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of cancer
TRAIL-Rs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present invention describes antibodies or their functional fragments that bind to TRAIL-R1 and/or TRAIL-R2. TRAIL-R1 and TRAIL-R2 antibodies have cytostatic and apoptotic activities, and can be used in antibody therapy. The antibodies can be applied as remedies and preventives of diseases due to cells expressing TRAIL-R1 and TRAIL-R2, which are useful in the therapy of malignant tumours. Remedies produced with the antibodies are highly safe, and avoid hepatotoxicity. The present sequence represents an anti-TRAIL-R antibody amino acid sequence from the than the sequence represents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             civity of inducing apoptosis of connormal cells expressing TRA for use in therapy of malignant
                                                                                                                                                                                                                                                                   TRAIL-R2; antibody; cytostatic; apoptotic; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         н
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 537.5; DB Pred. No. 2e-35; i; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New anti-TRAIL-R antibodies with activity cells and without exerting an effect on no nor inducing injury to hepatocytes, for us
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABR54916 standard; protein; 107 AA.
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                                                                                                              standard; protein; 129
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2001JP-00243040
2001JP-00314489
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97.2%;
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                                                                                                                                                                                                                              antibody
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N-PSDB; ABZ59693.
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ses 105; Conser
                                                                                                                                                                                                                                                                                        therapy.
                                                                                                                                                                                                                                                                    TRAIL-R1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-MAY-2001;
09-AUG-2001;
11-OCT-2001;
                                                                                                                                                                                                                              Anti-TRAIL-R
                                                                                                                                                                                                                                                                                                                             sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-MAY-2002;
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The present invention describes a method (M1) for amplifying a nucleic acid strand (S) acid strand. M1 comprises providing an engineered nucleic acid strand (S) having a predetermined sequence at one end and a sequence complementary to the predetermined sequence at the other, and contacting (S) with a primer having the predetermined sequence in the presence of a polymers and nucleotides under conditions suitable for polymerisation of the nucleotides. Also described is an engineered nucleic acid strand (I) having a predetermined sequence at the other end. M1 is useful for to the predetermined sequence at the other end. M1 is useful for amplifying a nucleic acid. M1 can be used for producing an antibody library. M1 is useful for preparing amplified products that can be used to transform an appropriate host organism to produce the polypeptide or protein encoded by the target sequence. M1 is useful to amplify a family of related sequences to build a complex library such as, for example an antibody library. M1 is useful not only for producing large amounts of one target nucleic acid sequence, but also for amplifying simultaneously more than one different target nucleic acid sequence located on the same or different nucleic acid molecules. ACC62635 to ACC62753 and ABR54841 to ABR54998 represent sequence used in the exemplification of the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Amplifying nucleic acid by contacting engineered nucleic acid strand having predetermined sequence at one end and sequence complementary to predetermined sequence at other end, with primer having predetermined
                                                                                                                             amplification; antibody libr
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                                                                                                                                                                                                                                                                                                                                                                                                                    Renshaw
                                                                                                                                                                                                                                                                                                                                                                                                                   Lin Y,
                                                                                         clone HBPAXK9b 3E7 SEQ ID NO:142
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                                                                                                                                                                                                                                                                                                                                                                                                                   Maruyama
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 3; Fig 8b-c; 68pp; English.
                                                                                                                            red template; single primer acid amplification.
                                                                                                                                                                                                                                                                                                        19-SEP-2002; 2002WO-US029889
                                                                                                                                                                                                                                                                                                                                             19-SEP-2001; 2001US-0323455P
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                                                                                                                                                                                                                                                                                                                                                                                                                  Frederickson
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                                                                                                                                                                               Homo sapiens
Synthetic.
                                                                                         chain
                                                      30-JUN-2003
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                                                                                                                            Engineered
nucleic ac:
                   ABR54916;
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Gaps 1; 107; Length Indels Score 535.5; DB 6; Pred. No. 2.4e-35; L; Mismatches 1; 1; 94.8%; Conservative Query Match Best Local Similarity Matches 105; Conser

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US-10-408-901-48
US-10-656-769-12
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US-10-173-551-9
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; ORGANISM: Homo
US-10-720-323-8
    ; TYPE: PRT
; ORGANISM: Homo
US-10-305-347A-8
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Sequence 8, Application US/09920267C

Publication No. US2003004004A1

GENERAL INFORMATION:

APPLICANT: Centocor, Inc.

APPLICANT: Giles-Komar, Jill

APPLICANT: Trikha, Mohit

APPLICANT: Nakada, Marian

TITLE OF INVENTION: ANTI-DUAL INTEGRIN ANTIBODIES, COM

FILE REFERENCE: CEN 249

CURRENT APPLICATION NUMBER: US/09/920,267C

CURRENT FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/223,363

PRIOR FILING DATE: 2000-08-07

NUMBER OF SEQ ID NOS: 17

SEQ ID NO 8

LENGTH: 108

TYPE: PRT
US-10-300-675-38

US-08-844-215-9

US-10-371-942-68

US-09-453-234-72

US-10-309-764-141

US-10-251-085B-117

US-10-251-085B-119

US-10-737-252-119

US-10-737-252-119

US-10-737-252-119

US-10-737-252-119

US-10-737-252-132

US-10-251-085B-132

US-10-300-675-28

US-10-300-675-30
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Pred. No. 2.2e-41;
Mismatches 0;
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US-10-305-347A-8
Sequence 8, Application US/10305347A
Publication No. US20030143603A1
GENERAL INFORMATION:
APPLICANT: Giles-Komar, Jill
APPLICANT: Bernie Scallon
TITLE OF INVENTION: ANTI-TNF ANTIBODIES, COMP
FILE REFERENCE: CENS005
CURRENT APPLICATION NUMBER: US/10/305,347A
CURRENT FILING DATE: 2002-11-26
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Patentin Ver 3.0
SEQ ID NO 8
LENGTH: 108
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Publication No. US20040185507A1

GENERAL INFORMATION:

APPLICANT: Centocor, Inc.

APPLICANT: Giles-Komar, Jill

APPLICANT: Trikha, Mohit

APPLICANT: Trikha, Mohit

APPLICANT: Snyder, Linda

APPLICANT: Nakada, Marian

TITLE OF INVENTION: ANTI-DUAL INTEGRIN ANTIBODIES, COP

FILE REFERENCE: CEN 249 CIPNP

CURRENT APPLICATION NUMBER: US/10/720,323

CURRENT FILING DATE: 2003-11-24

PRIOR FILING DATE: 2000-08-07

NUMBER OF SEQ ID NOS: 17

SOFTWARE: Patentin version 3.1

SEQ ID NO 8

SEQ ID NO 8
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Pred, No. 2.2e-41;
Mismatches 0;
Score 565; DB 14;
Pred. No. 2.2e-41;
Mismatches 0;
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; Sequence 8, Application US/10954900A
; Publication No. US20050123541A1
; GENERAL INFORMATION:
; APPLICANT: Giles-Komar, Jill
; APPLICANT: David Knight
; APPLICANT: Bernie Scallon
; APPLICANT: Bernie Scallon
; TITLE OF INVENTION: ANTI-TNF ANTIBODIES, COMP
; FILE REFERENCE: CEN0250 DIV-2
; CURRENT APPLICATION NUMBER: US/10/954,900A
; CURRENT APPLICATION NUMBER: 09/920,262
; PRIOR APPLICATION NUMBER: 60/223,360
; PRIOR FILING DATE: 2000-08-07
; PRIOR APPLICATION NUMBER: 60/223,360
; PRIOR FILING DATE: 2000-08-07
; PRIOR APPLICATION NUMBER: 60/223,360
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RESULT 8
US-10-394-471B-16
i Sequence 16, Application US/10394471B
i Sequence 16, Application No. US20040185047A1
i Publication No. US20040185047A1
i GENERAL INFORMATION:
i APPLICANT: Giles-Komar, Jill; Carton, Jill; Scallon, Bernard J.
i TITLE OF INVENTION: ANTI-THF ANTIBODIES, COMPOSITIONS, METHODS AND USES; FILE REFERENCE: CEN0202
i CURRENT FILING DATE: 2003-03-21
i PRIOR APPLICATION NUMBER: 60/367,903
i PRIOR FILING DATE: 2002-03-26
i NUMBER OF SEQ ID NOS: 17
i SOFTWARE: PatentIn Ver 3.1
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APPLICANT: Witte, Alison
APPLICANT: Witte, Alison
APPLICANT: Word, Lu Min
APPLICANT: Wong, Lu Min
APPLICANT: Qian, Xueming
TITLE OF INVENTION: Therapeutic Human Anti-IL-IR Monoclonal Antibody
FILE REFERENCE: 01,1554
CURRENT APPLICATION NUMBER: US/10/656,769
CURRENT FILING DATE: 2003-09-05
NUMBER OF SEQ ID NOS: 79
SOFTWARE: Patentin version 3.0
SEQ ID NO 12
LENGTH: 128
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Pred. No. 1.1e-39;
; Mismatches 2;
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Pred. No. 1.5e-39;
}; Mismatches 1.
CURRENT APPLICATION NUMBER: US/10/408,901
CURRENT FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 76
SOFTWARE: PatentIn version 3.0
SEQ ID NO 48
LENGTH: 215
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105; Conservative
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Best Local Similarity 96.3%;
Matches 104; Conservative
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US-10-408-901-48
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APPLICANT: Elliot, Robin
APPLICANT: Sullivan, John
APPLICANT: Medlock, Eugene
APPLICANT: Martin, Francis
TITLE OF INVENTION: Human Anti-OPGL Neutralizing Antibodies As
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Pred. No. 2.2e-41;
Mismatches 0;
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Pred. No. 8e-40;
3; Mismatches
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APPLICANT: Elliot, Robin
APPLICANT: Sullivan, John
APPLICANT: Martin, Francis
TITLE OF INVENTION: Human Anti-OPGL Neutrali
TITLE OF INVENTION: Inhibitors
FILE REFERENCE: MBHB 01-1145-A
CURRENT APPLICATION NUMBER: US/10/408,901
CURRENT FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 76
SOFTWARE: Patentin version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 48, Application US/10408901 Publication No. US20040023313A1 GENERAL INFORMATION:
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Publication No. US20040023313A1
GENERAL INFORMATION:
APPLICANT: Boyle, William
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|| Similarity 100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Homo sapiens
US-10-408-901-24
                                                                 ; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-954-900A-8
   PRIOR FILING DATE: 2000
NUMBER OF SEQ ID NOS: 1
SOFTWARE: PatentIn Ver
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LENGTH: 109
TYPE: PRT
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; Sequence 38, Application US/10656769
; Publication No. US20040097712A1
; GENERAL INFORMATION:
; APPLICANT: Varnum, Brian
; APPLICANT: Witte, Alison
; APPLICANT: Wong, Lu Min
; APPLICANT: Qian, Xueming
; TITLE OF INVENTION: Therapeutic Human Anti-IL-IR Monoclonal Antibody
; FILE REFERENCE: 01,1554
; CURRENT APPLICATION NUMBER: US/10/656,769
; CURRENT FILING DATE: 2003-09-05
; NUMBER OF SEQ ID NOS: 79
; SOFTWARE: PatentIn version 3.0
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Pred. No. 1.2e-39;
1; Mismatches 2;
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Pred. No. 2.1e-39;
1; Mismatches 2;
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TITLE OF INVENTION: Antibodies that bind FILE REFERENCE: 1855.2025-000
CURRENT APPLICATION NUMBER: US/10/173,551
CURRENT FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 70
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-173-551-9; Sequence 9, Application US/10173551; Publication No. US20030232387A1; GENERAL INFORMATION:
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nilarity 97.2%;
Conservative
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11 Similarity 97.2%;
105; Conservative
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LENGTH: 130
TYPE: PRT
ORGANISM: Homo sapiens
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US-10-656-769-38
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                                                               Query Match
Best Local Similarity
Matches 105; Conser
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NAME/KEY: SITE
LOCATION: (24).
    ; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo
US-10-394-471B-16
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-10-656-769-38
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LENGTH: 108
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 4, Application US/10886838
Sequence 4, Application US/10886838
Publication No. US20050008642A1
GENERAL INFORMATION:
APPLICANT: Hoffmann-La Roche Inc.
TITLE OF INVENTION: Antibodies against insulin-like growth factor I
TITLE OF INVENTION: thereof
FILE REFERENCE: 21695
CURRENT APPLICATION NUMBER: US/10/886,838
CURRENT FILING DATE: 2004-07-08
PRIOR APPLICATION NUMBER: EP 03015526
PRIOR FILING DATE: 2003-07-10
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.2
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Sequence 8, Application US/10408901

GENERAL INFORMATION:

APPLICANT: Boyle, William

APPLICANT: Huang, Haichun

APPLICANT: Elliot, Robin

APPLICANT: Sullivan, John

APPLICANT: Medlock, Eugene

APPLICANT: Martin, Francis

TITLE OF INVENTION: Human Anti-OPGL Neutralizing Antibodies As Sel

TITLE OF INVENTION: Inhibitors

FILE REFERENCE: MBHB 01-1145-A

CURRENT APPLICATION NUMBER: US/10/408,901
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Pred. No. 1.4e-39;
; Mismatches 2
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Pred. No. 2.1e-39;
2; Mismatches 2
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illarity 97.2%;
Conservative
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1 Similarity 96.3%;
104; Conservative
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105; Conser
                               LOCATION: (50)...(9 OTHER INFORMATION: FEATURE:
                                                                                    ; NAME/KEY: SITE
; LOCATION: (89)...(5
; OTHER INFORMATION:
US-10-173-551-9
                 : SITE
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FEATURE:
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Sequence 40, Application US/10408901
Sequence 40, Application US/10408901
Sequence 40, Application US/10408901
Sublication No. US20040023313A1
GENERAL INFORMATION:
APPLICANT: Boyle, William
APPLICANT: Huang, Haichun
APPLICANT: Sullivan, John
APPLICANT: Medlock, Eugene
APPLICANT: Martin, Francis
TITLE OF INVENTION: Human Anti-OPGL Neutralizing Antibodies As Selective OPGL Pathway
TITLE OF INVENTION: Inhibitors
FILE REFERENCE: MBHB 01-1145-A
                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Boyle, William
APPLICANT: Boyle, William
APPLICANT: Huang, Haichun
APPLICANT: Huang, Haichun
APPLICANT: Huang, Haichun
APPLICANT: Sullivan, John
APPLICANT: Medlock, Eugene
APPLICANT: Medlock, Eugene
APPLICANT: Martin, Francis
TITLE OF INVENTION: Inhibitors
FILE REFERENCE: MBHB 01-1145-A
CURRENT APPLICATION NUMBER: US/10/408,901
CURRENT FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 76
SOFTWARE: Patentin version 3.0
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Pred. No. 3.2e-39;
; Mismatches 2
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Pred. No. 3.2e-39;
1; Mismatches 2
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Publication No. US20040023313A1
GENERAL INFORMATION:
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illarity 94.4%;
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1 Similarity 94.4%;
102; Conservative
CURRENT FILING DATE: 2003-
NUMBER OF SEQ ID NOS: 76
SOFTWARE: Patentin version
SEQ ID NO 16
LENGTH: 109
                                                                          TYPE: PRT
ORGANISM: Homo sapiens
-10-408-901-16
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102; Conser
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LENGTH: 109
TYPE: PRT
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US-10-408-901-40
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APPLICANT: Huang, Haichun
APPLICANT: Elliot, Robin
APPLICANT: Sullivan, John
APPLICANT: Medlock, Eugene
APPLICANT: Martin, Francis
TITLE OF INVENTION: Human Anti-OPGL Neutralizing Antibodies As
TITLE OF INVENTION: Inhibitors
FILE REFERENCE: MBHB 01-1145-A
CURRENT APPLICATION NUMBER: US/10/408,901
CURRENT FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 76
SOFTWARE: PatentIn version 3.0
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APPLICANT: Huang, Haichun
APPLICANT: Elliot, Robin
APPLICANT: Sullivan, John
APPLICANT: Medlock, Eugene
APPLICANT: Martin, Francis
TITLE OF INVENTION: Human Anti-OPGL Neutralizing Antibodies As
TITLE OF INVENTION: Inhibitors
FILE REFERENCE: MBHB 01-1145-A
CURRENT APPLICATION NUMBER: US/10/408,901
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Pred. No. 2.2e-39;
; Mismatches 1;
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Pred. No. 4.2e-39;
5; Mismatches 1;
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                                                                                                                                                                                                                                                                                                                                                       Sequence 32, Application US/10408901
Publication No. US20040023313A1
GENERAL INFORMATION:
APPLICANT: Boyle, William
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il Similarity 94.4%;
102; Conservative
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Local Similarity 94.4%;
nes 102; Conservative
SEQ ID NOS: 76
PatentIn version 3
                                                        ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-901-8
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US-10-408-901-32
 SOFTWARE: Pate
SEQ ID NO 8
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US-10-408-901-32
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LENGTH: 215
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TYPE: PRT

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Sequence 142, Application US/10737252
Sequence 142, Application US/10737252
Publication No. US20040175736A1
GENERAL INFORMATION:
APPLICANT: Bowdish, Katherine S.
APPLICANT: Frederickson, Shana
APPLICANT: Fenshaw, Mark
APPLICANT: Renshaw, Mark
APPLICANT: Lin, Ying-Chi
APPLICANT: Lin, Ying-Chi
APPLICANT: Maruyama, Toshiaki
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Pred. No. 7.7e-39;
; Mismatches 1;
                                                                                                                                                                                                                        Score 537.5; DB 1
Pred. No. 6.2e-39;
; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 142, Application US/10251085B;
Publication No. US20040072164A1;
GENERAL INFORMATION:
APPLICANT: Bowdish, Katherine S.
APPLICANT: Frederickson, Shana
APPLICANT: Renshaw, Mark
APPLICANT: Lin, Ying-Chi
APPLICANT: Lin, Ying-Chi
TITLE OF INVENTION: ENGINEERED TEMPLATES AND THE
FILE REFERENCE: 1087-21
CURRENT APPLICATION NUMBER: US/10/251,085B
CURRENT FILING DATE: 2002-09-19
PRIOR FILING DATE: 2001-09-19
      FILING DATE: 2001-08-09
APPLICATION NUMBER: JP2001-314489
FILING DATE: 2001-10-11
R OF SEQ ID NOS: 45
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11 Similarity 97.2%;
105; Conservative
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SOFTWARE: PatentIn version
SEQ ID NO 142
LENGTH: 107
  PRIOR FILING DATE: 2001-C
PRIOR APPLICATION NUMBER:
PRIOR FILING DATE: 2001-1
NUMBER OF SEQ ID NOS: 45
SOFTWARE: Patentin Ver. 2
SEQ ID NO 19
LENGTH: 129
                                                                                                                                         ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-478-056-19
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ORGANISM: human
S-10-251-085B-142
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; Publication No. US20040023313A1
; Publication No. US20040023313A1
; GENERAL INFORMATION:
    APPLICANT: Boyle, William
    APPLICANT: Huang, Haichun
    APPLICANT: Elliot, Robin
; APPLICANT: Sullivan, John
    APPLICANT: Martin, Francis
; TITLE OF INVENTION: Human Anti-OPGL Neutralizing Antibodies As Sellitle OF INVENTION: Inhibitors
; TITLE OF INVENTION: Inhibitors
; TITLE OF INVENTION: Inhibitors
; FILE REFERENCE: MBHB 01-1145-A
; CURRENT APPLICATION NUMBER: US/10/408,901
; CURRENT FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 52
; LENGTH: 215
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Pred. No. 6.2e-39;
; Mismatches 2;
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Pred. No. 6.2e-39;
4; Mismatches 2;
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APPLICANT: KIRIN BEER KABUSHIKI KAISHA; TITLE OF INVENTION: ANTI TRAIL-R ANTIBODY; FILE REFERENCE: PH-1573-PCT; CURRENT APPLICATION NUMBER: US/10/478,056; CURRENT FILING DATE: 2003-11-18; PRIOR APPLICATION NUMBER: JP2001-150213; PRIOR FILING DATE: 2001-05-18
CURRENT APPLICATION NUMBER: US/10/408,901
CURRENT FILING DATE: 2003-04-07
NUMBER OF SEQ ID NOS: 76
SOFTWARE: Patentin version 3.0
SEQ ID NO 40
LENGTH: 215
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11 Similarity 94.4%;
102; Conservative
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11 Similarity 94.4%;
102; Conservative
                                                                                                                                     ; ORGANISM: Homo sapiens
US-10-408-901-40
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US-10-408-901-52
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Publication No. US20030059937A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS FILE REFERENCE: PF523
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APPLICANT: Hefta, Laura
APPLICANT: Santoro, Marc
APPLICANT: Santoro, Marc
APPLICANT: Ganguly, Subinay
TITLE OF INVENTION: FULLY HUMAN ANTIBODIES AGAINST HUMAN
FILE REFERENCE: 10060 NP
CURRENT APPLICATION NUMBER: US/10/961,567A
CURRENT FILING DATE: 2004-10-08
PRIOR FILING DATE: 2003-10-10
                                                                                                                                                                                                            16;
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Pred. No. 1.7e-38;
L; Mismatches 2;
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Pred. No. 7.7e-39;
                                                                                                                                                                                                                                       Mismatches
CURRENT APPLICATION NUMBER: US/10/737,252
CURRENT FILING DATE: 2003-12-15
PRIOR APPLICATION NUMBER: US 10/251,085
PRIOR FILING DATE: 2002-09-19
PRIOR APPLICATION NUMBER: US 60/323,455
PRIOR FILING DATE: 2001-09-19
NUMBER OF SEQ ID NOS: 309
SOFTWARE: Patentin version 3.2
                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 6, Application US/10961567A Publication No. US20050095244A1 GENERAL INFORMATION:
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illarity 97.2%;
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SOFTWARE: PatentIn version 3
SEQ ID NO 6
LENGTH: 236
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ORGANISM: Artificial
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nes 105; Conser
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Best Local Similarity
Matches 105; Conser
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US-09-880-748-1049
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US-10-961-567A-6
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                                                                                                                    SEQ ID NO 142
LENGTH: 107
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TITLE OF INVENTION: Antibodies that Immunospecifically Bind BLyS
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2e-38;
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CURRENT APPLICATION NUMBER: US/10/293,418

CURRENT FILING DATE: 2002-11-27

PRIOR APPLICATION NUMBER: 60/331,469

PRIOR FILING DATE: 2001-11-16

PRIOR FILING DATE: 2001-12-19

PRIOR FILING DATE: 2001-06-15

PRIOR FILING DATE: 2001-06-15

PRIOR FILING DATE: 2001-06-15

PRIOR FILING DATE: 2001-05-25

PRIOR FILING DATE: 2001-05-25

PRIOR FILING DATE: 2001-03-21

PRIOR FILING DATE: 2001-03-21

PRIOR FILING DATE: 2001-03-21

PRIOR FILING DATE: 2001-03-16

PRIOR APPLICATION NUMBER: 60/240,816
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Pred. No. 2
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Pred. No.
APPLICATION NUMBER: US/09/880,748 FILING DATE: 2001-06-15
                               PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR FILING DATE: 2000-10-17
PRIOR FILING DATE: 2000-10-17
PRIOR FILING DATE: 2001-03-16
PRIOR FILING DATE: 2001-03-16
PRIOR FILING DATE: 2001-03-21
PRIOR FILING DATE: 2001-03-21
PRIOR FILING DATE: 2001-03-21
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: Patentin Ver: 2.0
SEQ ID NO 1049
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-293-418-1049
; Sequence 1049, Application US/10293418
; Publication No. US20030223996A1
; GENERAL INFORMATION:
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96.3%;
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APPLICATION NUMBER: 60/7
FILING DATE: 2000-06-16
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EQ ID NO 1049
LENGTH: 251
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Search completed: June 16, Job time: 101.735 secs
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US-10-886-838-2
; Sequence 2, Application US/10886838
; Publication No. US20050008642A1
; GENERAL INFORMATION:
; APPLICANT: Hoffmann-La Roche Inc.
; TITLE OF INVENTION: thereof
; TITLE OF INVENTION: thereof
; FILE REFERENCE: 21695
; CURRENT FILING DATE: 2004-07-08
; PRIOR APPLICATION NUMBER: EP 03015526
; RICRENT FILING DATE: 2003-07-10
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
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APPLICANT: Treanor, James
APPLICANT: Treanor, James
APPLICANT: Huang, Haichun
APPLICANT: Huang, Haichun
APPLICANT: Inoue, Heather
APPLICANT: Zhang, Tie J.
APPLICANT: Martin, Frank
TITLE OF INVENTION: Human anti-NGF Neutraliz
TITLE OF INVENTION: Inhibitors
FILE REFERENCE: 02-1240
CURRENT APPLICATION NUMBER: US/10/891,658
CURRENT FILING DATE: 2004-07-15
PRIOR APPLICATION NUMBER: US 60/487,431
PRIOR FILING DATE: 2003-07-15
NUMBER OF SEQ ID NOS: 138
SOFTWARE: Patentin version 3.0
                                                                                                              Sequence 91, Application US/10891658 Publication No. US20050074821A1 GENERAL INFORMATION:
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; TYPE: PRT
; ORGANISM: homo sapien
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S23628
Ig kappa chain V region - human (fragment)
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 21--
C; Accession: S23628
R; Olee, T.; Lu, E.W.; Huang, D.F.; Soto-Gil, R.W.; Deftos, M.; Kozii
J. Exp. Med. 175, 831-842, 1992
A; Title: Genetic analysis of self-associating immunoglobulin G rheum
A; Reference number: S23623; MUID:92156804; PMID:1740665
A; Accession: S23628
A; Molecule type: DNA
A; Residues: 1-111 < OLE>
A; Cross-references: EMBL:X59705; NID:g34022; PIDN:CAA42226.1; PID:g
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 16-90/Domain: immunoglobulin homology < IMM>
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RESULT 1
S54905
Ig kappa chain V region - human (fragment)
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 08-Jul-1995 #sequence_revision 21-Jul-1995 #text_change 21-C; Accession: S54905
R; Esposito, G.; Traboni, C.
submitted to the EMBL Data Library, November 1994
A; Description: Cloning and sequencing of cDNA coding for the variab A; Reference number: S54905
A; Reference number: S54905
A; Residues: Dreliminary
A; Molecule type: mRNA
A; Residues: 1-114 < ESP>
A; Cross-references: EMBL:X82934; NID:g809554; PIDN:CAA58108.1; PID: C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 16-90/Domain: immunoglobulin homology < IMM>
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Ig kappa chain precursor V-J-C region (LS1) - human C;Species: Homo sapiens (man)
C;Date: 30-Jun-1992 #sequence_revision 30-Jun-1992
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R;Silberstein, L.E.; Litwin, S.; Carmack, C.E.
J. Exp. Med. 169, 1631-1643, 1989
A;Title: Relationship of variable region genes expressed by a human A;Reference number: PL0106; MUID:89235583; PMID:2541221
A;Reference number: PL0106
A;Molecule type: mRNA
A;Residues: 1-144 <SIL>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Reywords: heterotetramer; immunoglobulin
F;1-20/Domain: signal sequence #status predicted <SIG>
F;21-115/Domain: v region <VRE>
F;21-115/Domain: immunoglobulin homology <IMM>
F;44-54/Region: complementarity-determining 1
F;70-76/Region: complementarity-determining 3
F;116-127/Domain: J region <JRG>
F;128-144/Domain: C region (fragment) <CRE>
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C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 19-Oct-1995 #sequence_revision 19-Oct-1995 #text_change 21-
C;Accession: A56701
R;Nickerson, K.G.; Tao, M.H.; Chen, H.T.; Larrick, J.; Kabat, E.A.
J. Biol. Chem. 270, 12457-12465, 1995
A;Title: Human and mouse monoclonal antibodies to blood group A sub
A;Reference number: A56701; MUID:95279371; PMID:7759488
A;Reference number: A56701; MUID:95279371; PMID:7759488
A;Residues: 1-128 a.NIC>
A;Residues: 1-128 c.NIC>
A;Residues: 1-128 c.NIC>
A;Cross-references: GB:L41174; NID:g762823; PIDN:AAA64877.1; PID:g7
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;36-110/Domain: immunoglobulin homology <IMM>
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C; Species: Homo sapiens (man)
C; Date: 27-Jun-1994 #sequence_revision 27-Jun-1994 #text_chan
C; Date: 27-Jun-1994 #sequence_revision 27-Jun-1994 #text_chan
C; Accession: G44151
R; Zebedee, S.L.; Barbas III, C.F.; Hom, Y.L.; Caothien, R.H.;
Proc. Natl. Acad. Sci. U.S.A. 89, 3175-3179, 1992
A; Title: Human combinatorial antibody libraries to hepatitis
A; Reference number: A44151; MUID: 92228746; PMID:1373487
                                                                                                                                                                                                                                                                                                                                                                                                                  Score 525.5; DB 2;
Pred. No. 3.5e-38;
2; Mismatches 2;
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Pred. No. 4.7e-38;
2; Mismatches 2
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                                                                                                                                                                                                                                                                                                                                                                                                                     93.0%;
95.4%;
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larity 95.4%;
Conservative
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Ig kappa chain V-J region - human (fragment)
(Species: Homo sapiens (man)
(Species: Homo sapiens (man)
(Species: Homo sapiens (man)
(Species: 10-Oct-1995 #sequence_revision 17-Nov-1995 #text_change 21-Jan-2000
(Species: 10-Oct-1995 #sequence_revision 17-Nov-1995 #text_change 21-Jan-2000
(Species: 10-Oct-1995 #sequence_revision 17-Nov-1995 #text_change 21-Jan-2000
(Species: 10-10 #sequence_revision 17-Nov-1995 #text_change 21-Jan-2000
(Species: 10-Jan-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  genes and their hypermutation.
PMID:8258341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PID:9441447
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C;Species: Homo sapiens (man)
C;Date: 19-May-1994 #sequence_revision 26-May-1995 #text_change 21-
C;Date: 19-May-1994 #sequence_revision 26-May-1995 #text_change 21-
C;Accession: S40379
R;Klein, R.; Jaenichen, R.; Zachau, H.G.
Eur. J. Immunol. 23, 3248-3271, 1993
A;Title: Expressed human immunoglobulin chi genes and their hypermu
A;Title: Expressed human immunoglobulin chi genes and their hypermu
A;Reference number: S40312; MUID:94080891; PMID:8258341
A;Reference number: S40379
A;Status: preliminary; translation not shown
A;Molecule type: mRNA
A;Residues: 1-128 <KLE>
A;Cross-references: EMBL:X72489; NID:g441446; PIDN:CAA51157.1; PID:C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;36-110/Domain: immunoglobulin homology <IMM>
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A;Introns: 17/1
C;Superfamily: immunoglobulin V region; immunoglobulin
C;Keywords: heterotetramer; immunoglobulin
F;36-110/Domain: immunoglobulin homology <IMM>
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Pred. No. 3.6e-36;
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Pred. No. 2.4e-36;
3; Mismatches 5;
                                                                                                                                         Score 513.5; DB 2;
Pred. No. 3.4e-37;
1; Mismatches 6;
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Similarity 91.7%;
99; Conservative
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larity 90.7%;
Conservative
                                                                                                                                         ch 90.9%;
il Similarity 92.7%;
101; Conservative
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Best Local S
Matches 99
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Best Local S
Matches 101
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Matches 9
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try, October 1992
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C;Species: Homo sapiens (man)
C;Date: 19-May-1994 #sequence_revision 26-May-1995 #text_change 21-Jan-2
C;Accession: S40345
R;Klein, R.; Jaenichen, R.; Zachau, H.G.
Eur. J. Immunol. 23, 3248-3271, 1993
A;Title: Expressed human immunoglobulin chi genes and their hypermutation
A;Reference number: S40312; MUID:94080891; PMID:8258341
A;Accession: S40345
A;Accession: S40345
A;Accession: S40345
A;Kesidues: 1-128 «KLE>
A;Residues: 1-128 «KLE>
A;Residues: 1-128 «KLE>
A;Cross-references: EMBL:X72455; NID:9441378; PIDN:CAA51123.1; PID:94413
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;32-106/Domain: immunoglobulin homology <IMM>
                                                                                                                  696
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S29627
Ig kappa chain V region (60.3 hybridoma) - human
C;Species: Homo sapiens (man)
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 21-Jan-2
C;Accession: S34110; S29627
C;Accession: S34110; S29627
Nucleic Acids Res. 21, 2921-2929, 1993
A;Title: Vectors for the expression of PCR-amplified immunoglobulin vari
A;Reference number: S34110; MUID:93324379; PMID:8332501
A;Accession: S34110
A;Accession: S3410
A;Accession: S34110
A;Accession: S34110
A;Molecule type: mRNA
A;Residues: 1-129 < WA2>
A;Cross-references: EMBL:217330; NID:g38511; PIDN:CAA78978.1; PID:g38512
A;Note: human sequences cloned and sequenced prior to expression in mous
C;Genetics:
                                                                                                                  PID:9183
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                      A;Status: preliminary; not compared with conceptual translation A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-108 <ZEB>
A;Cross-references: GB:M88317; NID:g183968; PIDN:AAA35975.1; PII
A;Note: nucleotide translation not given
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;15-89/Domain: immunoglobulin homology <IMM>
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larity 91.7%; Pred. No. 2.7e-37;
Conservative 3; Mismatches 5;
                                                                                                                                                                                                                                                                                          Score 518.5; DB Pred. No. 1.1e-37, Mismatches
                                                                                                                                                                                                                                                                                                                                             2;
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ilarity 96.2%;
Conservative ;
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101; Conser
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rC5 species: Hone sapiens (man)
C; species: Hone sapiens
C; s
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C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 27-Jan-1995 #sequence_revision 01-Sep-1995 #text_change 21-Jan-2000
C;Accession: S46375, S38648
R;Bensimon, C.; Chastagner, P.; Zouali, M.
EMBO J. 13, 2951-2962, 1994
A;Title: Human lupus anti-DNA autoantibodies undergo essentially primary V(chi)
A;Reference number: S46369; MUID:94313975; PMID:8039491
A;Reference number: S46369; MUID:94313975; PMID:8039491
A;Reference number: S46375
A;Molecule type: mRNA
A;Residues: 1-114 <BEN>
A;Residues: 1-114 <BEN>
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Superfamily: immunoglobulin homology <IMM>
C;Keywords: heterotetramer; immunoglobulin
C;Keywords: heterotetramer; immunoglobulin
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                                                                               Length
                                                                        Score 493; DB 1; Pred. No. 1.7e-35; 0; Mismatches 0;
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Pred. No. 2.3e-34;
8; Mismatches 5;
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Pred. No. 2.9e-34;
5; Mismatches 8;
           #status predicted
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100.0%;
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Similarity 86.2%;
94; Conservative
                                                                                                           Similarity 100 95; Conservative
       F;43-108/Disulfide bonds:
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Best Local S
Matches 92
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Best Local S
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Best Local (
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S46375
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C; Date: 19-May-1994 #sequence_revision 26-May-1995 #text_change 21-Jan-2000
C; Accession: $40344
R; Klein, R.; Jaenichen, R.; Zachau, H.G.
Eur. J. Immunol. 23, 3248-3271, 1993
A; Title: Expressed human immunoglobulin chi genes and their hypermutation.
A; Reference number: $40312; MUID: 94080891; PMID: 8258341
A; Accession: $40344
A; Accession: $40344
A; Residues: preliminary; translation not shown
A; Molecule type: mRNA
A; Residues: 1-125 < KLE>
A; Cross-references: EMBL: X72454; NID: 9441376; PIDN: CAA51122.1; PID: 9441377
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 36-110/Domain: immunoglobulin homology < IMM>
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Pred. No. 1.4e-35;
3; Mismatches 5;
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ilarity 91.5%;
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Best Local Similarity
Matches 97; Conser
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S40362

Ig kappa chain - human
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 06-Mar-1994 #sequence_revision 26-May-1995 #text_change 21-Jan-2000
C; Accession: S40362
R; Klein, R.; Jaenichen, R.; Zachau, H.G.
Eur. J. Immunol. 23, 3248-3271, 1993
A; Title: Expressed human immunoglobulin chi genes and their hypermutation.
A; Reference number: S40312; MUID: 94080891; PMID: 8258341
A; Accession: S40362
A; Accession: S40362
A; Residues: 1-117 < KLE>
A; Residues: 1-117 < KLE>
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Superfamily: immunoglobulin homology < IMM>
F; 26-100/Domain: immunoglobulin homology < IMM>
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S40325
Ig kappa chain - human
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Date: 06-Mar-1994 #sequence_revision 26-May-1995 #text_change 21-Jan-200
C;Accession: S40325
R;Klein, R.; Jaenichen, R.; Zachau, H.G.
Eur. J. Immunol. 23, 3248-3271, 1993
A;Title: Expressed human immunoglobulin chi genes and their hypermutation. A;Reference number: S40312; MUID:94080891; PMID:8258341
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C; Species: Homo sapiens (man)
C; Date: 02-Dec-1993 #sequence_revision 10-Nov-1995 #text_charter: 02-Dec-1993 #sequence_revision 10-Nov-1995 #text_charter: X: Tsapis, A:; Brouet, J.C.
Eur. J. Immunol. 23, 846-851, 1993
A; Title: Nucleotidic sequence analysis of the variable dome A; Reference number: S34001; MUID: 93209281; PMID: 7681398
A; Reference number: S34005
A; Reference number: S34005
A; Residues: preliminary
A; Molecule type: mRNA
A; Residues: 1-107 < MAR>
A; Residues: 1-107 < MAR>
C; Superfamily: immunoglobulin V region; immunoglobulin home C; Keywords: heterotetramer; immunoglobulin
F; 16-90/Domain: immunoglobulin homology < IMM>
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Pred. No. 4.5e-34;
; Mismatches 7;
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87.0%;
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larity 87.0%;
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S34005
Ig kappa chain V
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Best Local
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S11697
Ig kappa chain precursor V-III region - human
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Species: Homo sapiens (man)
C;Accession: S11697
N; Pech, M.; Smola, H.; Pohlenz, H.D.; Straubinger, B.; Gerl, R.; Zachau, H.G.
J. Mol. Biol. 183, 291-299, 1985
A;Title: A large section of the gene locus encoding human immunoglobulin vari
A;Reference number: S11697; MUID:85264787; PMID:3927006
A;Accession: S11697
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-115 <PEC>
A;Cross-references: EMBL:X17264; NID:g37898; PIDN:CAA35168.1; PID:g296688
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, Decen
C;Genetics:
A;Introns: 17/1
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: heterotetramer; immunoglobulin
F;36-110/Domain: immunoglobulin homology <IMM>
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                                                                                                                                                                                               Ig kappa chain NIG2 precursor - human
C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
C; Date: 05-Dec-1998 #sequence_revision 05-Dec-1998 #text_change 21-Jan-2
C; Accession: JE0244
R; Alim, M.A.; Hara, Y.; Hossain, M.S.; Takeda, K.; Yamagata, F.; Yamaki, submitted to JIPID, November 1998
A; Description: A new subgroup of k type light chains (VkV) identified in A; Reference number: JE0243
A; Accession: JE0244
A; Molecule type: protein
A; Residues: 1-215 < ALI>
C; Superfamily: immunoglobulin V region; immunoglobulin homology
F; 16-90/Domain: immunoglobulin homology < IMM>
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Pred. No. 5.9e-34
6; Mismatches 10
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Pred. No. 4e-34;
); Mismatches
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Best Local Similarity 85.2%;
Matches 92; Conservative
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Local Similarity 97.9%;
nes 92; Conservative
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840363
Ig kappa chain - human
C; Species: Homo sapiens (man)
C; Date: 06-Mar-1994 #sequence_revision 26-May-1995 #text_change 21-Jan-2
C; Accession: 840363
R; Klein, R.; Jaenichen, R.; Zachau, H.G.
Eur. J. Immunol. 23, 3248-3271, 1993
A; Title: Expressed human immunoglobulin chi genes and their hypermutation
A; Reference number: 840363
A; Accession: 840363
A; Status: preliminary; translation not shown
A; Molecule type: mRNA
A; Residues: 1-129 < KLE>
A; Cross-references: EMBL: X72473; NID: 9441414; PIDN: CAA51141.1; PID: 94414
C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 35-109/Domain: immunoglobulin homology < IMM>
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C; Species: Homo sapiens (man)
C; Accession: 840343
R; Klein, R.; Jaenichen, R.; Zachau, H.G.
Eur. J. Immunol. 23, 3248-3271, 1993.
A; Title: Expressed human immunoglobulin chi genes and their hypermu A; Reference number: 840312; MUID: 94080891; PMID: 8258341
A; Accession: 840343
A; Accession: 840343
A; Accession: 840343
A; Reference number: B40312; MUID: 94080891; PMID: 8258341
A; Reference number: B40312; MUID: 94080891; PMID: 8258341
A; Ccession: B40343
A; Ccession: B40343
A; Cross-references: EMBL: X72453; NID: 9441374; PIDN: CAA51121.1; PID: C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 36-110/Domain: immunoglobulin homology <IMM>
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A; Accession: S40325
A; Status: preliminary; translation not shown
A; Molecule type: mRNA
A; Molecule type: mRNA
A; Residues: 1-129 < KLE>
A; Cross-references: EMBL: X72435; NID: g441338; PIDN: CAA51103.1; C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Superfamily: immunoglobulin homology < IMM>
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Pred. No. 1.8e-33
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C; Species: Homo sapiens (man)
C; Date: 29-Jun-1989 #sequence\_revision 29-Jun-1989 #text\_chan
C; Accession: A30608
R; Goni, F.R.; Chen, P.P.; McGinnis, D.; Arjonilla, M.L.; Fern
J. Immunol. 142, 3158-3163, 1989
A; Title: Structural and idiotypic characterization of the L c
A; Reference number: A30601; MUID:89215279; PMID:2496160
A; Accession: A30608
A; Status: preliminary
A; Molecule type: protein
A; Residues: 1-109 <GON>
A; Cross-references: UNIPROT:Q9UL78
C; Superfamily: immunoglobulin V region; immunoglobulin homolo
C; Keywords: heterotetramer; immunoglobulin
F;16-91/Domain: immunoglobulin homology <IMM> Indels Indels ы ; ... ..4e-33; 3; 10; Score 466; DB 2; I Pred. No. 3.3e-33; 1; Mismatches 8; (fragment) ; DB 2; 4.3e-33 Score 465; DB Pred. No. 4.3e 10; Mismatches Score 468.5; Pred. No. 2.4e 9; Mismatches human 4 ; 10; 6 82.9%; ilarity 84.3%; Conservative (Son) 82.5%; th 82.3%; Similarity 81.5%; 88; Conservative 1 Conservative chain V-III region l Similarity 91; Conserv Similarity 95; Conser 61 61 61 61 Query Match Query Match Best Local Local 엄

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C; Species: Homo sapiens (man)
C; Date: 05-Dec-1998 #sequence_revision 05-Dec-1998 #text_change 21-Jan-2
C; Accession: JE0242
R; Alim, M.A.; Yamaki, S.; Hossain, M.S.; Takeda, K.; Kojima, M.; Takashi submitted to JIPID, November 1998
A; Description: Structure relationship of kappatype light chains with AL A; Reference number: JE0241
A; Reference number: JE0241
A; Molecule type: protein
A; Residues: 1-215 < ALI>
C; Superfamily: immunoglobulin V region; immunoglobulin homology
F;16-91/Domain: immunoglobulin homology < IMM>
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R; Klein, R.; Jaenichen, R.; Zachau, H.G.
Eur. J. Immunol. 23, 3248-3271, 1993
A; Title: Expressed human immunoglobulin chi genes and their hypermu A; Reference number: $40312; MUID: 94080891; PMID: 8258341
A; Accession: $40360
A; Status: preliminary; translation not shown
A; Molecule type: mRNA
A; Residues: 1-130 < KLE>
A; Cross-references: EMBL: X72470; NID: 9441408; PIDN: CAAS1138.1; PID: C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin homology < IMM>
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C; Species: Homo sapiens (man)
C; Date: 29-Jun-1989 #sequence_revision 29-Jun-1989 #text_change 21-
C; Accession: H30601; E30601
R; Goni, F.R.; Chen, P.P.; McGinnis, D.; Arjonilla, M.L.; Fernandez, J. Immunol. 142; 3158-3163, 1989
A; Title: Structural and idiotypic characterization of the L chains A; Reference number: A30601; MUID: 89215279; PMID: 2496160
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Pred. No. 7.7e-33;
1; Mismatches 9;
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Pred. No. 4.8e-33;
3; Mismatches 12
                                                                           26-May-1995
                                                        Species: Homo sapiens (man)
Date: 06-Mar-1994 #sequence_revision
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C;Species: Homo
C;Date: 06-Mar-
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                                                                                                                                                                        Vertebrata; Euteleostomi; Hominidae; Homo.
                                                                                                                                                                                                                                                                                              arè interdigitated
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Complementarity-determining-
Framework-3.
Complementarity-determining-
By similarity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                                        13-AUG-1987 (Rel. 05, Created)
13-AUG-1987 (Rel. 05, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
Ig kappa chain V-III region VG precursor (Fragment)
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Created)
Last sequence update)
Last annotation update)
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Mismatches 0;
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                                                                                                                                                                                                                                                                                               different subgroups
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                                                   115 AA
                                                                                                                                                                        Craniata; Ve
Catarrhini;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 493;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GO; GO:0005576; C:extracellular; NAS. GO; GO:0003823; F:antigen binding; NAS. GO; GO:0006955; P:immune response; NAS. InterPro; IPR007110; Ig-like.
                                                                                                                                                                                                                                                                                                                               Nucleic Acids Res. 12:9229-9236(1984)
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InterPro; IPkvv-
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
Immunoglobulin V region; Signal.
ITCNAL
20
21 >115 Frar
                                                                                                                                                                                                                                                         MEDLINE=85087932; PubMed=6440122;
Pech M., Zachau H.G.;
"Immunoglobulin genes of differenthe VK locus.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
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                                                                                                                                                                       Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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100.0%;
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                                                 STANDARD;
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95; Conserv
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43
115
115 AA;
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HSSP; P01625; 1EF
GO; GO:0005576; C
GO; GO:0003823; E
GO; GO:0006955; E
                                                                                                                                                                                                         NCBI_TaxID=9606;
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01-MAY-2000
01-MAY-2000
01-OCT-2003
                                                  KV3I HUMAN
                                                                                                                                                                                                                                             SEQUENCE
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                                                                 P04433;
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DOMAIN
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                T 1
HUMAN
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Q9UL83
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation-the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chen P.P
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                                                                    Euteleostomi;
                                                                                                                                                     SEQUENCE FROM N.A.
MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
Young D.C.;
"Myosin-reactive autoantibodies in rheumatic carditis and normal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          factor
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Myosin-reactive immunoglobulin light chain variable region
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
MEDLINE=86177570; PubMed=3083417;
Jirik F.R., Sorge J., Fong S., Heitzmann J.G., Curd J.G.,
Goldfien R., Carson D.A.;
"Cloning and sequence determination of a human rheumatoid
light-chain gene.";
Proc. Natl. Acad. Sci. U.S.A. 83:2195-2199(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61 RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
                                                                                            HOMO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length
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                                                                   Craniata; Vertebrata; I
Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 485.5; DB 2;
Pred. No. 1.4e-41;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9F9C5A92EBA96EEA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-MAR-1987 (Rel. 04, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
Ig kappa chain V-III region CLL precursor (Rh
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                              87:184-192 (1998)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     129 AA
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                                                                                                                                                                                                                                                                                                       EMBL, AF035031; AAD56267.1; -..
EMBL, AF035031; AAD56267.1; -..
PIR; B30609; B30609.
PIR; C30609; C30609.
PIR; S34098; S34098.
PIR; S34099; S34099.
HSSP; P01625; 1LVE.
InterPro; IPR003596; Ig_v.
                                            Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11834 MW;
                                                                                                                                                                                                                                                                                             . Immunopathol.
1; AAD56267.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             85.9%;
88.9%;
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HSSP; P01625; 1LVE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SMART; SM00406; IGv; 1.—
PROSITE; PS50835; IG_LIKE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             108
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96; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               108 AA;
                                                                                                               NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                       fetus.";
Clin. Immunol
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P04207;
                                                                                            Mammalia;
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Best Local S
Matches 96
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SEQUENCE
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EIVMTQSPATLSVSPGERATLSCWASQSISSNLAWYQQKPGQAPRLLIYGASTRATGIPA
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                                                                                                                                                                                                                                                                    somatic
                                                                                                                                                                                                                                            Kipps T.J., Tomhave E., Chen P.P., Carson D.A.,
"Autoantibody-associated kappa light chain variable region gene
expressed in chronic lymphocytic leukemia with little or no somat;
mutation. Implications for etiology and immunotherapy.";
J. Exp. Med. 167:840-852(1988).
-!- DISEASE: The protein is one of the surface immunoglobulin M
autoantibodies expressed in patients with chronic lymphocytic
                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi,
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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Complementarity-determining-1. Framework-2.
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JKI segment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 129
                      RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK
                                                                                                                                                                                                                                                                                                                                                                                                        | InterFro; iffaces, 15. | Pfam; PF00047; ig; 1. | SMART; SM00406; IGv; 1. | SMART; SM00406; IGv; 1. | 20 | Ig kappa chain V-III region H | 21 | 129 | Ig kappa chain V-III region H | 21 | 43 | Framework-1. | CHAIN | 21 | 43 | Framework-1. | COMPAIN | 44 | 55 | COmplementarity-determining-1 | DOMAIN | 71 | 77 | Complementarity-determining-1 | DOMAIN | 71 | 77 | Complementarity-determining-1 | DOMAIN | 110 | 118 | Complementarity-determining-1 | DOMAIN | 119 | 129 | JK1 segment. | JK1 segment. | DISULFID | 43 | 109 | By similarity. | DISULFID | 43 | 14073 MW; D3C55292772774D0 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Complementarity-determining-
Framework-3.
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Pred. No. 6.5e-39,
2; Mismatches 10
                                                                                                                   01-NOV-1990 (Rel. 16, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
Ig kappa chain V-III region HAH precursor.
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (Rel. 01, Created)
(Rel. 01, Last sequence update)
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HSSP; P01625; 1EEQ.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0003823; F:antigen binding; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
                                                                                                   129
                                                                                                  PRT;
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Conservative 2;
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Local Similarity
                                                                                                                                                                                                                        SEQUENCE FROM N.A. MEDLINE=88171307;
                                                                                                                                                                                                                                                                                                                           leukemia.
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21-JUL-1986
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P01624;
                                                                                                   HUMAN
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P18135;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531
Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
                                                                                                              CLL
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                                                                                                              Ig kappa chain V-III region C
Framework-1.
Complementarity-determining-1
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Complementarity-determining-3
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                                                                                                             chain V-III region
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01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Myosin-reactive immunoglobulin kappa chain variable
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                                                                                                                                                                                                                                                          6e-41;
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Pred. No. 2e-40;
0; Mismatches
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Pred. No. 6e-4
9; Mismatches
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                                                                                                                                                                                         segment.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0003823; F:antigen binding; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig-v.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
Immunoglobulin V region; Signal.
SIGNAL
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Clin. Immunol. Immunopathol. 8
EMBL; AF035029; AAD56265.1; -.
PIR; D30609; D30609.
HSSP; P01625; 1EK3.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11761 MW;
                                                                                                                                                                                                                         14275 MW;
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Q9UL85,
01-MAY-2000
01-MAY-2000
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NON TER
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                                                                            MEDLINE=76276460; PubMed=60899;

Klapper D.G., Capra J.D.;

Klapper D.G., Capra J.D.;

The amino acid sequence of the variable regions of the light chain of from two idiotypically cross reactive IgM anti-gamma globulins.";

L. Ann. Immunol. (Paris) 127C:261-271(1976).

-!- MISCELLANEOUS: This chain was isolated from an IgM with anti-ga globulin activity.

PIR; A01897; K3HUPM.

R HSSP; P01625; 1LVE.

GO; GO:0005576; C:extracellular; NAS.

GO; GO:0006955; P:immune response; NAS.

R GO; GO:0006955; P:immune response; NAS.

InterPro; IPR007110; Ig-like.

R InterPro; IPR003596; Ig_v.
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Kipps T.J., Tomhave E., Chen P.P., Carson D.A.;
"Autoantibody-associated kappa light chain variable region gene expressed in chronic lymphocytic leukemia with little or no somatimutation. Implications for etiology and immunotherapy.";
J. Exp. Med. 167:840-852(1988).
-!- DISEASE: The protein is one of the surface immunoglobulin Mautoantibodies expressed in patients with chronic lymphocytic
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                               Craniata; Vertebrata; Euteleostom
Catarrhini; Hominidae; Homo.
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Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                        Length
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SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
Direct protein sequencing; Immunoglobulin V region.
DISULFID 23 89 By similarity.
                                                                                                                                                                                                                                                                                                      Score 459; DB 1; I
Pred. No. 6.7e-39;
9; Mismatches 8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-NOV-1990 (Rel. 16, Created)
01-NOV-1990 (Rel. 16, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
Ig kappa chain V-III region HIC precursor.
  annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                           129 AA
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            region POM.
05-JUL-2004 (Rel. 44, Last anno

Ig kappa chain V-III region POM

Homo sapiens (Human).

Eukaryota; Metazoa; Chordata; C

Mammalia; Eutheria; Primates; C

NCBI_TaxID=9606;
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Primates;
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HSSP; P01625; 1EEQ.
GO; GO:0005576; C:ex:
GO; GO:0003823; F:an
GO; GO:0006955; P:im
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Eukaryota; Metazoa;
Mammalia; Eutheria;
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90; Conser
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P18136;
01-NOV-1990
01-NOV-1990
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Matches 9
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                                                                          region HIC
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n der Merwe P.L., Kalis N.N., Berney S.M.,
                                                                                                                                                                                                                                                         Length 129;
                                                                                                                                                                                                                                                                                                                                                                         Ig kappa chain V-111 region in Framework-1.
Complementarity-determining-1 Framework-2.
                                                                                                                              Complementarity-determining-2 Framework-3. Complementarity-determining-3 JK1 segment. By similarity.
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Catarrhini, Hominidae,
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01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Myosin-reactive immunoglobulin light chain variable (Fragment).
                                                                                                                                                                                                                                                                          . 6
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                                                                                                                                                                                                                                                        , DB 1;
8.2e-39;
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Young D.C.;
"Myosin-reactive autoantibodies in rheumatic
                                                                                                                                                                                                                                                                      ed. No. 8.2
Mismatches
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                                                                                                                                                                                                                                                       Score 459;
Pred. No. 8
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Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
Immunoglobulin V region; Signal
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Mammalia; Eutheria; Primates;
NCBI_TaxID=9606;
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86.2%;
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EMBL; AF035036; AAD562

PIR; A30601; A30601.

PIR; B30601; B30601.

PIR; B30607; B30607.

PIR; B30607; B30601.

PIR; C30601; C30601.

PIR; C30601; C30601.

PIR; C30601; D30607.

PIR; D30607; D30607.

PIR; B30601; B30601.

PIR; B30601; B30601.

PIR; F30608; F30608.

PIR; G30601; G30601.

PIR; H30608; H30608.

PIR; H44151; H44151.

PIR; PH0963; PH0963.

PIR; PH0964; PH0964.
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MEDLINE=98277139; P
Wu X., Liu B., Van
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Matches
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Catarrhini; Hominidae; Homo.
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Andrews D.W., Capra J.D.;
"Amino acid sequence of the variable regions of light chains idiotypically cross-reactive human IgM anti-gamma-globulins group.";
Biochemistry 20:5816-5822(1981).
-!- MISCELLANEOUS: This chain was isolated from an IgM with globulin activity.
PIR; A01892; K3HUSI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 109;
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9; Indels
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HSSP; P01625; 1LVE.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0006953; F:antigen binding; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
Direct protein sequencing; Immunoglobulin V region.
DISULFID 23 89 BY similarity.
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                                                                                       5F675C52EC7EE197
                                                                                                         ; DB 2;
1.7e-38;
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Pred. No. 2.2e-38;
; Mismatches
                                                                                                                                                                                                                                                          21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Ig kappa chain V-III region SIE.
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Verte
Mammalia; Eutheria; Primates; Catarrhini; Hom
                                                                                                                                                                                                                                             109 AA
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Pred. No. 1
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PIR; S33988; S33988.

PIR; S34096; S34096.

HSSP; P01625; 1EK3.

InterPro; IPR007110; Ig-like.

InterPro; IPR003596; Ig_v.

SMART; SM00406; IGv; 1.

PROSITE; PS50835; IG_LIKE; 1.
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                                                                                                        80.5%;
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Similarity 85.3%;
93; Conservative
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109 AA;
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94; Conserv
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Matches
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MEDLINE=72188439; PubMed=5027703;

MEDLINE=72188439; PubMed=5027703;

MEDLINE=72188439; PubMed=5027703;

MEDLINE=72188439; PubMed=5027703;

MEDLINE=72188439; PubMed=5027703;

MEDLINE=72188439; PubMed=5027703;

"Rule of antibody structure. The primary structure of a monoclonal immunoglobulin L-chain of kappa-type, subgroup 3 (Bence-Jones protein Ti). IV. The complete amino acid sequence and its significance for the mechanism of antibody production.";

HOPPE-Seyler's Z. Physiol. Chem. 353:189-208(1972).

"I HOPPE-Seyler's Z. Physiol. Chem. 353:189-208(1972).

"I MSCELLANEOUS: This is a Bence-Jones protein.

R SSP; P01625; LLVE.

R HSSP; P01625; LLVE.

R GO; GO:0005576; C:extracellular; NAS.

GO; GO:0006955; P:immune response; NAS.

InterPro; IPR007110; Ig-like.

InterPro; IPR007110; Ig-like.

InterPro; IPR0073596; Ig-v.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 EIVLTQSPATLSLSPGERATLSCRASQSVS-SYLAWYQQKPGQAPRLLIYDASNRATGIP
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                 Euteleostomi
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MEDLINE=98277139; PubMed=9614934; DOI=10.1006/clin.1998.4531;
Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 109;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61 DRFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGS-SPSTFGQGTKVELK
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                                                                                                                                                                                                                                                                 Craniata; Vertebrata; E
Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OgUL86;
01-MAY-2000 (TrEMBLrel. 13, Created)
01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Myosin-reactive immunoglobulin kappa chain variable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .. 6
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SMART; SM00406; IGv; 1.

PROSITE; PS50835; IG_LIKE; 1.

Bence-Jones protein; Direct protein sequencing;
Immunoglobulin V region.

DISULFID 23 89 By similarity.

DISULFID 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 454; DB 1;
Pred. No. 2.2e-38;
5; Mismatches
                                                                  11-JUL-1986 (Rel. 01, Created)
11-JUL-1986 (Rel. 01, Last sequence update)
5-JUL-2004 (Rel. 44, Last annotation update)
g kappa chain V-III region Ti.
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                                                                                                                                                                                                              Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80.4%;
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STANDARD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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NCBI_TaxID=9606;
                                                                    21-JUL-1986
21-JUL-1986
05-JUL-2004
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Young D.C.;
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HUMAN
                                                                                                                                                                                                                                                                                                                                                                                  [1]
SEQUENCE.
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Best Local
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                   P01622;
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SMART; SM00409;
                                                                                                                                                                                           Hypothetical
SEQUENCE 2:
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05-JUL-2004
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostom:
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases
EMBL; BC032451; AAH32451.1; -.
HSSP; P01837; 1KCU.
                                                                                                                                                                                                                                                                                        CRC64;
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id. Sci. U.S.A. 99:16899-16903(2002)
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                                                                                                                                                                                                                                                                                                                               Score 454; DB 2;
Pred. No. 2.2e-38
                                           87:184-192(1998)
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                                                                                                                    HSSP; P01625; 1EK3.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
                                                                                                                                                                                                                                                                                     11928 MW;
                                        Immunopathol.
AAD56264.1; -
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Ig-like.
Ig_c1.
Ig_MHC.
                                                                                                                                                                                                                                                                                                                               86.2%;
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27,
27,
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                                                                                                                                                                                                                                                                109
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. Immunol. .
. AF035028; AAL.
. 7607; B30607.
. 130601.
. 1EK3.
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IPR003599;

IPR007110;

IPR003597;

IPR003006;
                                                                                                                                                                                                                                                                                     109 AA;
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                                                                                                                                                                                                                                                                                                                                                     Similarity
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                                                                                  PIR; B30607;
PIR; I30601;
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                                                                                                                                                                                                                                                                                                                                                                          94;
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InterPro;
InterPro;
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                                                                                                                                                                                                                                                                                     SEQUENCE
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X TISSUE=Lung;

X Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

A Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Heich F.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Stapleton M., Soares M.B., Bonaldo M.F., Carninci P., Brange C.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,

A Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

A Nhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

A Jones S.J., Marra M.A.;

I "Generation and initial analysis of more than 15,000 full-length human

T "Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                                                                    59
                                                                                                                                                                                                                                                                                                                                                                                                                                      80
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                           Length 236;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DRFSGSGSGTDFTLTISRLEPEDFAVYYCQQYGTSRPITFGQGTRLDIK
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                                                                                                                                                                                                                                                                                                                             Indel
                                                                                                                                                                                                                       CRC64;
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27, Last sequence update)
27, Last annotation update)
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                                                                                                                                                                                                                                                                           DB
                                                                                                                                                                                                                                                                        Score 453.5; DB Pred. No. 6e-38;
                                                                                                                                                                                                                                                                                                            ed. No. 6e*.
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    235
InterPro; IPR003596; Ig v.
Pfam; PF07654; C1-set; 1.
SMART; SM00409; IG; 2.
SMART; SM00407; IGC1; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS00290; IG LIKE; 2.
PROSITE; PS00290; IG MHC; UNKNOWN 1.
                                                                                                                                                                                                                                                                                                                           4;
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Submitted (OCT-2001) to the EM EMBL; BC016380; AAH16380.1; -. HSSP; P01837; 1KCU.
InterPro; IPR003599; Ig. InterPro; IPR007110; Ig-like. InterPro; IPR003597; Ig_cl. InterPro; IPR003596; Ig_MHC. InterPro; IPR003596; Ig_WHC. InterPro; IPR003596; Ig_V. Pfam; PF07654; C1-set; I.
                                                                                                                                                                                                                    25834 MW;
                                                                                                                                                                                                                                                                      80.3%;
ilarity 83.5%;
Conservative
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(TrEMBLrel.
(TrEMBLrel.
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236 AA; 29
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TaxID=9606
          5-JUL-2004
5-JUL-2004
5-JUL-2004
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Q6P5S8;
05-JUL-2004
05-JUL-2004
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                                                                                                      Craniata; Vertebrata; Euteleostom Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                               chains
                                                                                                                                                                                                                                                                                                                              group.";
Biochemistry 20:5816-5822(1981).
-!- MISCELLANEOUS: This chain was isolated from an IgM with
globulin activity.
PIR; A01896; K3HUWL.
                                                                                                                                                                                                                                                                                             MEDLINE=82046598; PubMed=6794615;
Andrews D.W., Capra J.D.;
"Amino acid sequence of the variable regions of light chains
idiotypically cross-reactive human IgM anti-gamma-globulins
group.";
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                                                            235;
                                                                                                                                       60 ARFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK
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                                            CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                        Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
Direct protein sequencing; Immunoglobulin V region DISULFID 23 89 By similarity.
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                                            F33A145A396BA285
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                                                           Score 453; DB 2;
Pred. No. 6.7e-38;
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 448; DB 1;
Pred. No. 8.8e-38;
Mismatches 13
                                                                                                                                                                                                      21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Ig kappa chain V-III region WOL.
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                        PIR; A01896; K3HUwn.
HSSP; P01625; 1LVE.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0003823; F:antigen binding; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; Ig-like.
ThterPro; IPR003596; Ig_v.
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                                                                                                                                                                                         PRT;
SMART; SM00407; IGc1; 1.

SMART; SM00406; IGv; 1.

PROSITE; PS50835; IG LIKE; 2.

PROSITE; PS00290; IG_MHC; UNKNOWN_Hypothetical protein.

SEQUENCE 235 AA; 25520 MW; F33
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Mammalia; Eutheria; Primates;
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                                                           85.3%;
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85.3%;
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93; Conser
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109
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HUMAN
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TISSUE=Spleen,

X TISSUE=Spleen,

X Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

A Strausberg R.L., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Altschenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Stapleton M.J. Usdin T.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

A Nillalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

Whiting M., Madan A., Young A.C., Shevchenko Y., Boutfard G.G.,

A Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,

A Jones S.J., Marra M.A.;

RT "Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
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Strausberg R.;
Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases
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                                                                                                                     Craniata; Vertebrata; E
Catarrhini; Hominidae;
Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002)
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InterPro; IPR003599; Ig.
InterPro; IPR007110; Ig-1ike.
InterPro; IPR003597; Ig c1.
InterPro; IPR003596; Ig w.
Pfam; PF07654; C1-set; I.
Pfam; PF00047; ig; 2.
SMART; SM00409; IG; 2.
SMART; SM00407; IGc1; I.
PROSITE; PS50835; IG LIKE; 2.
PROSITE; PS50835; IG LIKE; 2.
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Mammalia; Eutheria; Primates;
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Homo sapiens (Human)
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                                                                             TISSUE=Glandular pool- thyroid;

X SEQUENCE FROM N.A.

TISSUE=Glandular pool- thyroid;

X Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

X Strausberg R.L., Zeeberg B., Buetow K.H., Schanen C.M., Schuler G.D.,

A Altschul S.F., Jordan H., Moore T., Mars S.I., Wang J., Hsieh F.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

A Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Robards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

Whiting M., Madan A., Young A.C., Shevchenko Y., Butterfield Y.S.,

A Rodriguez A.C., Grimwood J., Wy, Green E.D., Dickson M.C.,

A Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

Jones S.J., Marra M.A.;

"Generation and initial analysis of more than 15,000 full-length human

"Generation and initial analysis of more than 15,000 full-length human
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          Hypothetical protein.
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                                                                   Sci. U.S.A. 99:16899-16903(2002).
  27, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 444.5; DB 2;
Pred. No. 4.9e-37;
8; Mismatches 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-JAN-1988 (Rel. 06, Created)
01-JAN-1988 (Rel. 06, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
Ig kappa chain V-III region IARC/BL41 precursor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    128 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 2.
PROSITE; PS00290; IG_MHC; UNKNOWN_1.
                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
TISSUE=Glandular pool- thyroid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                              Strausberg R.;
Submitted (NOV-2003) to the EME EMBL; BC062704; AAH62704.1; -. HSSP; P01837; 1KCU.
InterPro; IPR003599; IG.
InterPro; IPR003597; Ig.cl.
InterPro; IPR003597; Ig.cl.
InterPro; IPR003596; Ig.v.
Pfam; PF07654; C1-set; I. SMART; SM00409; IG; 2.
SMART; SM00406; IGv; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5773 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   78.7%;
ilarity 80.7%;
Conservative
                                                                                                                                                                                                                                                                                                                                         sednences."
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(TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hypothetical protein-
SEQUENCE 236 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
88; Conser
                                                                                                                                                                                                                                                                                                                                      and mouse cDNA sec
Proc. Natl. Acad.
                                                           NCBI_TaxID=9606;
  05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KV3K HUMAN P06311;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 88
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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Catarrhini; Hominidae; Homo.
                                                                                                                                              and
Craniata; Vertebrata; Euteleostomi
Catarrhini; Hominidae; Homo.
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H
                                                                               SEQUENCE FROM N.A.
MEDLINE=86041852; PubMed=2997711;
Klobeck H.G., Meindl A., Combriato G., Solomon A., Zachau H.G.
"Human immunoglobulin kappa light chain genes of subgroups II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               108
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Complementarity-determining-1
Framework-2.
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Complementarity-determining-3
JK1 segment.
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Complementarity-determining-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ig kappa chain V-III
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 437.5; DB 1;
Pred. No. 1.2e-36;
5; Mismatches 13;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               By similarity
                                                                                                                                                                                                                                                                                                                                                                                  EMBL; Z00021; CAA77316.1; -.
PIR; A01899; K3HU41.
HSSP; P01625; 1EEQ.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0003823; F:antigen binding; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
Immunoglobulin V region; Signal.
SIGNAL
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                                                                                                                                                                                      Nucleic Acids Res. 13:6499-6513(1985)
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 Chordata; Primates;
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Mammalia; Eutheria; Primates;
NCBI TaxID=9606;
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82.4%;
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  Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9606;
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89; Conserv
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Milstein C.;
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KV3G HUMAN
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Best Local S
Matches 89
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Best Local
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KV3G HUMAN
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S.W.,
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TISSUE=Spleen;

TISSUE=Spleen;

MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

A Stausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E

Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.

Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Rahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.

Whiting M., Madan A., Young A.C., Shevchenko Y., Boutfard G.G.,

Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

Radriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.

Rizywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Jones S.J., Marra M.A.; "Generation and initial analysis of more than 15,000 full-lengt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5
        sednence
                                                                                                                                                                                                                                                                                                                                                       Length 108;
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Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases
FMRL: BC073793; AAH73793.1; -.
                                                                                                                                                                                                                                                                                                             CRC64;
    chains:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Last sequence update)
Last annotation update)
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                                                                          PIR; A01891; K3HUB6.
HSSP; P01625; 1EEQ.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig-v.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
Bence-Jones protein; Direct protein sequencing; Immunoglobulin V region.
DISULFID 23 89 By similarity.
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                                                              Bence-Jones protein
                                                                                                                                                                                                                                                                                                                8BC14FF07A419E3D
                                                                                                                                                                                                                                                                                                                                                     Score 435; DB 1;
Pred. No. 1.8e-36
2; Mismatches 1:
"The basic sequences of immunoglobulin kappa of Bence Jones proteins Rad, Fr4 and B6."; FEBS Lett. 2:301-304(1969).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
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larity 77.1%;
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InterPro; IPR003599; Ig.
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                                                                                                                                                                                                                                                                                                                108 AA;
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nes 84; Conser
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05-JUL-2004
05-JUL-2004
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Matches
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Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           60 ARFSGSGSGTDFTLTISSLEPEDFAVYYCOORSNWPPFTFGPGTKVDIK
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                                                                                                                                                                                                                                                                      CRC64;
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20-MAR-1987 (Rel. 04, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Ig kappa chain V-III region GOL (Rheumatoid factor)
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae
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SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
Direct protein sequencing; Immunoglobulin V region.
Direct protein sequencing; Immunoglobulin V region.
Direct protein sequencing; Immunoglobulin V region.
Direct protein 109 I09 By similarity.
NON TER 109 I09
                                                                                                                                                                                                                                                                                                              Score 431; DB 2; I
Pred. No. 1.2e-35;
5; Mismatches 13;
                                                                                                                                                                                                                                                                      DF32B580BAD19E4B
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Pred. No. 7.5e-36
6; Mismatches 11
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PIR; A01893; K3HUGO.
HSSP; P01625; 1EK3.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0003823; F:antigen binding; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
InterPro; IPR003110; Ig-like.
InterPro; IPR003597; Ig_cl.
InterPro; IPR003006; Ig_MHC.
InterPro; IPR003596; Ig_v.
Pfam; PF07654; Cl-set; l.
Pfam; PF00047; ig; 2.
SMART; SM00409; IG; 2.
SMART; SM00407; IGcl; l.
PROSITE; PS50835; IG_LIKE; 2.
PROSITE; PS00290; IG_MHC; UNKNOWN_1.
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                                                                                                                                                                                                                                                                    25646 MW;
                                                                                                                                                                                                                                                                                                                76.3%;
81.7%;
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80.7%;
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                                                                                                                                                                                                                                           Hypothetical protein
SEQUENCE 235 AA;
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                  use by non-profit institute. There are no restriction modified and this statement is not removed. Usage by and for or send an email to license@isb-sib.ch).
                                                                                                                                     Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostom
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                     different subgroups are interdigitated
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EMBL
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Complementarity-determining-1. Framework-2.
Complementarity-determining-2. Framework-3.
Complementarity-determining-3.
By similarity.
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and the EM
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                                                                                                         3-AUG-1987 (Rel. 05, Last sequence update)
5-JUL-1999 (Rel. 38, Last annotation update)
g kappa chain V-III region VH precursor (Fragment)
                                                                                                                                                                                                                                                                                                                                              This SWISS-PROT entry is copyright. It is produced between the Swiss Institute of Bioinformatics and the European Bioinformatics Institute. There are use by non-profit institutions as long as its
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Pred. No. 5.9e-35;
; Mismatches 9;
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01, Last sequence update)
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HSSP; P01625; 1LVE.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0006953; F:antigen binding; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
                                                                                                                                                                                                                                                  MEDLINE=85087932; PubMed=6440122;
Pech M., Zachau H.G.;
"Immunoglobulin genes of different su
the VK locus.";
Nucleic Acids Res. 12:9229-9236(1984)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; I. PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
Immunoglobulin V region; Signal.
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12757 MW;
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illarity 87.5%;
Conservative
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84; Conserv
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P016Z1;
21-JUL-1986
21-JUL-1986
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                                                              KV3J HUMAN
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Best Local
Matches 8
                                                                        P04434;
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MEDLINE=84093600; PubMed=6419127;

A Bentley D.L.;

Bentley D.L.;

"Most kappa immunoglobulin mRNA in human lymphocytes is homologous to a small family of germ-line V genes.";

I Nature 307:77-80(1984).

L Nature 307:77-80(1984).

C -!- MISCELLANEOUS: This gene was isolated from the NG9/9.1 hybridoma.

R PIR; A01894; K3HUNG.

R RSSP; P01625; 1EEQ.

GO; GO:0005576; C:extracellular; NAS.

GO; GO:0006955; P:immune response; NAS.

GO; GO:0006955; P:immune response; NAS.

InterPro; IPR007110; Ig-like.

InterPro; IPR003596; Ig_V.
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TISSUE=Primary B-Cells;

X Feingold E.A., Grouse L.H., Derge J.G.,

X Krausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

X Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

Altschul S.F., Zeeberg B., Farmer A.A., Rubin G.M., Hong L.,

Bistchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

Robert S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Rosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
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Catarrhini; Hominidae; Homo.
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Catarrhini; Hominidae; Homo
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Last annotation update)
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    Last annotation update) region NG9 precursor (Fr
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15-JUL-1999 (Rel. 38, Last anno Ig kappa chain V-III region NG9 Homo sapiens (Human).

Eukaryota; Metazoa; Chordata; C Mammalia; Eutheria; Primates; C NCBI TaxID=9606;
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InterPro; IPRousses
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG LIKE; 1.
PROSITE; PS50835; IG LIKE; 1.
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Mammalia; Eutheria; Primates;
NCBI_TaxID=9606;
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100 AA;
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                                                                                                                                                                                                                                                                                                                                                                       Gaps
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Capra J.D., Klapper D.G.;

Incomplete amino acid sequence of the variable domains of two human of the second and third hypervariable regions of the chain are identical with those of the human POM V-III kappa chain are identical with those of the human POM V-III kappa chain are identical with chose of the human POM V-III kappa chain are identical with anti-gain was isolated from an IgM with anti-gail globulin activity.

PIR; A01871; KIHULY.
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                        дb
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grímwood J., Schmutz J., Myers R.M., Butterfiel Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein Jones S.J., Marra M.A., "Generation and initial analysis of more than 15,000 full-lengt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ig kappa chain V-I region Lay.
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostom Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                       1;
                                                                                                                                                                                                                                                                                                                  236;
                                                                                                                                                                                                                                                                                                                                                                                                     RFSGSGSGTDFTLTISSLEPEDFAVYYCQQRSNWPPFTFGPGTKVDIK 108
                                                                                                                           Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

EMBL; BC073764; AAH73764.1; -.

InterPro; IPR003599; Ig.

InterPro; IPR007110; Ig-like.

InterPro; IPR003006; Ig_MHC.

InterPro; IPR003596; Ig_V.

Pfam; PF07654; C1-set; I.

Pfam; PF00047; Ig; 2.

SMART; SM00409; IG; 2.

SMART; SM00406; IGV; 1.

PROSITE; PS50835; IG_LIKE; 2.

PROSITE; PS00290; IG_MHC; UNKNOWN_1.
                                                                                                                                                                                                                                                                                                                                                                                                               Length
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                                                                                                                                                                                                                                                                                             CRC64;
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.A. 99:16899-16903(2002)
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                                                                                                                                                                                                                                                                                                                 417.5; DB 2
No. 2.7e-34;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (Rel. 01, Created)
(Rel. 01, Last sequence update)
(Rel. 44, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               108 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRT;
                                                                                                                                                                                                                                                                                                                  Score
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                                                                                                                                                                                                                                                                                             25707 MW;
                                                                                                                                                                                                                                                                                                                 73.9%;
71.3%;
                                                                and mouse cDNA sequences.".
Proc. Natl. Acad. Sci. U.S.
                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STANDARD;
                                                                                                SEQUENCE FROM N.A.
TISSUE=Primary B-Cells;
                                                                                                                                                                                                                                                                                  al protein.
236 AA; 2
                                                                                                                   Strausberg R.;
Submitted (JUN-2004)
EMBL; BC073764; AAH7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                P, P01607; 1BWW.
GO:0005576; C:e:
GO:0003823; F:a:
                                                                                                                                                                                                                                                                                                                           Local Similarity
nes 77; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI TaxID=9606;
                                                                                                                                                                                                                                                                                 Hypothetical
SEQUENCE 2
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21-JUL-1986
05-JUL-2004
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606,
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                                                        Framework-1.
Complementarity-determining-1.
Framework-2.
Complementarity-determining-2.
Framework-3.
Complementarity-determining-3.
Framework-4.
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14;
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Pred. No. 2.6e-33
                                                                                                                                                                                                                    Score 410.5; DB:
Pred. No. 5.7e-34
19; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                    P01596;
21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Ig kappa chain V-I region CAR.
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE.
MEDLINE=75075135; PubMed=4216454;
Milstein C.P., Deverson E.V.;
"Primary structure of kappa light chain from
                              1.
Immunoglobulin V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                             By similarity
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HSSP; P80362; 1WTL.
GO; GO:0005576; C:extracellular; NAS.
GO; GO:0006955; P:immune response; NAS.
InterPro; IPR007110; Ig-like.
InterPro; IPR003596; Ig_v.
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE; 1.
Direct protein sequencing; Glycoprotein; CARBOHYD 28 28 N-linked (Gl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eur. J. Biochem. 49:377-391(1974).
-!- MISCELLANEOUS: The C region of this
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56
88
97
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11834 MW;
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Similarity 68.5%;
74; Conservative 1
Pfam; PF00047; ig; 1.
SMART; SM00406; IGv; 1.
PROSITE; PS50835; IG_LIKE;
Direct protein sequencing;
DOMAIN 1 23
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